# PARKVIEW ELEMENTARY SCHOOL

## VICTOR ELEMENTARY SCHOOL DISTRICT

13427 CAHUENGA ROAD VICTORVILLE, CA

## HVAC REPLACEMENT PROJECT





949.250.0880 I FAX 949.250.0882 www.westgroupdesigns.com

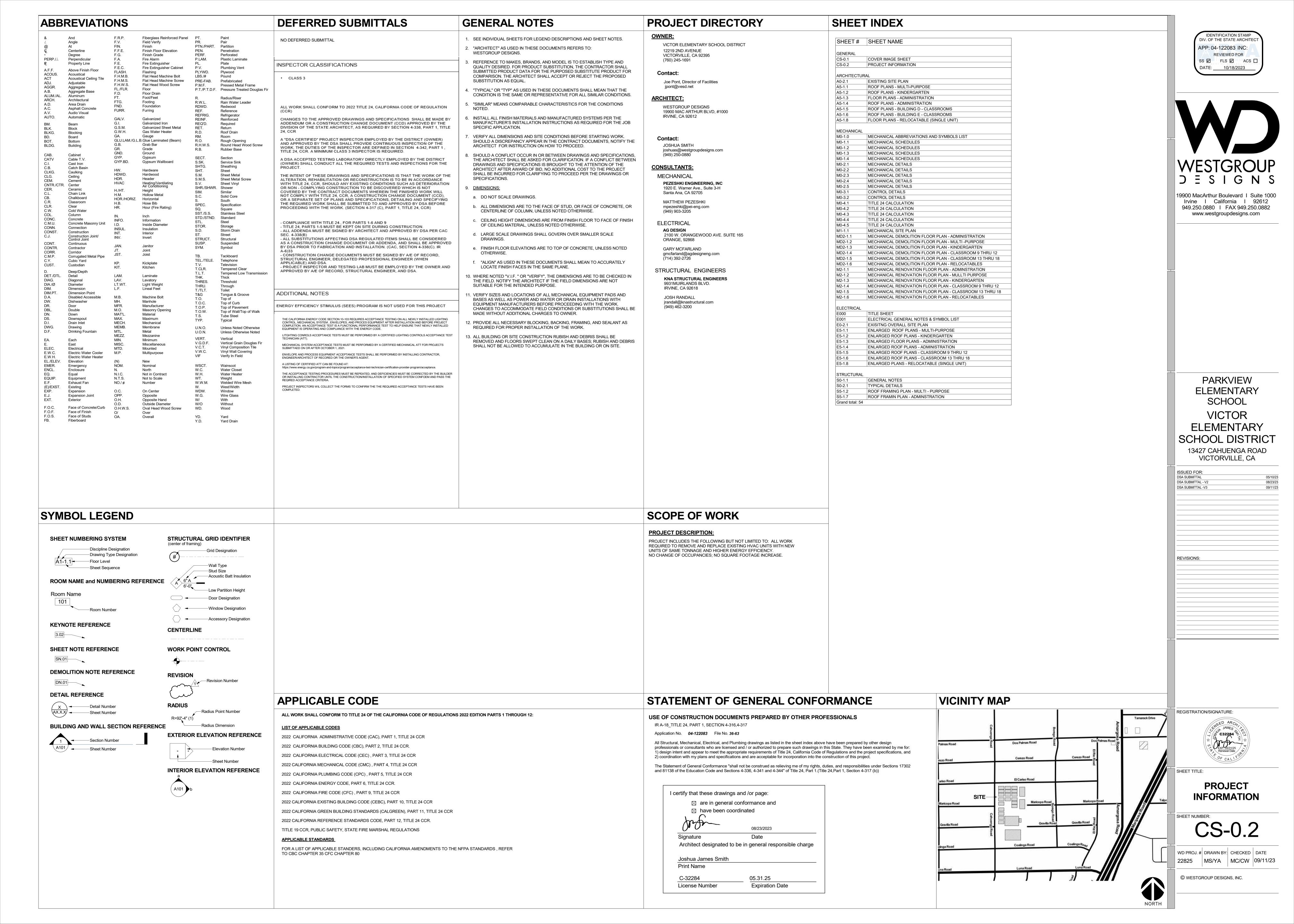
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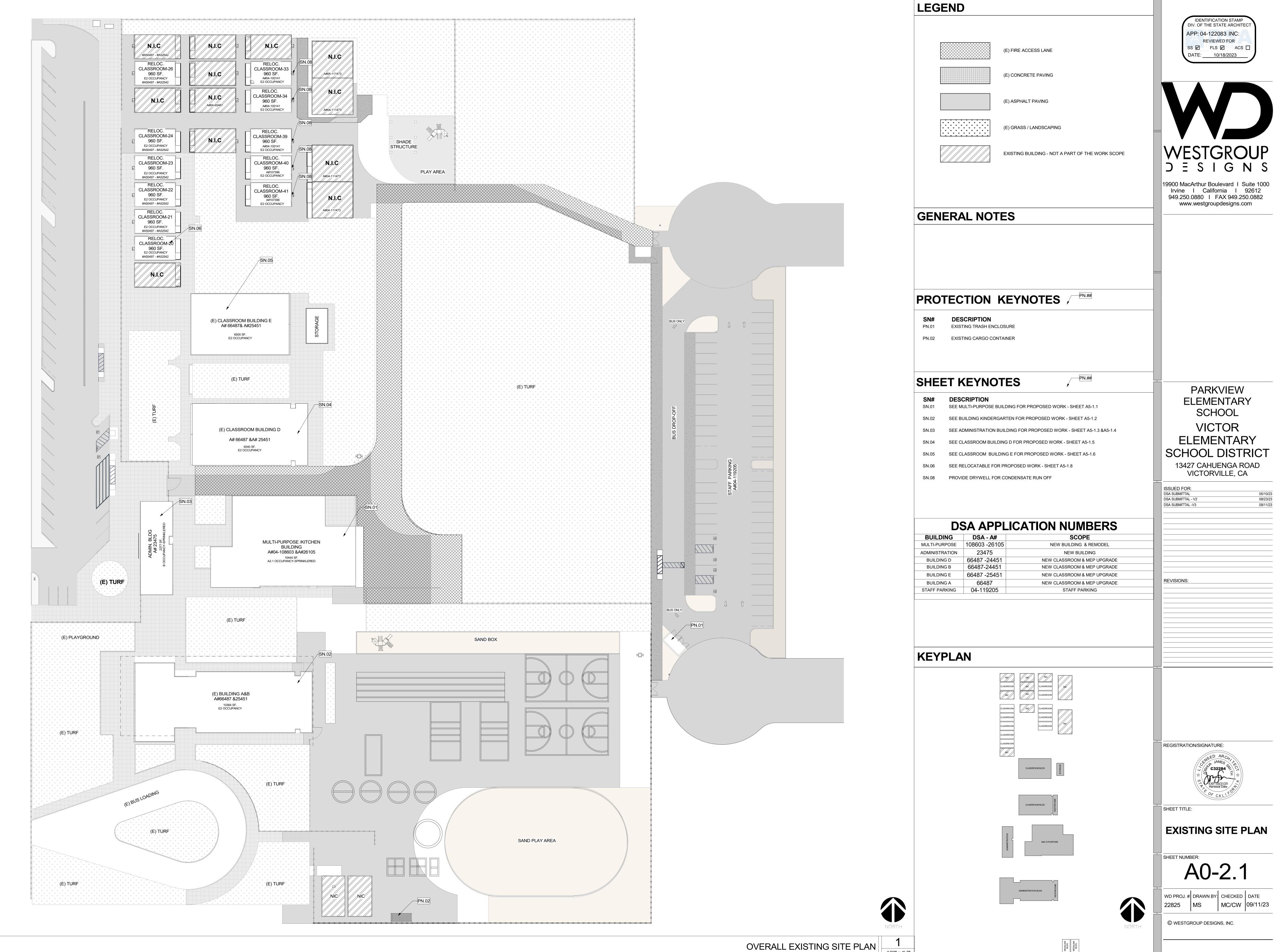
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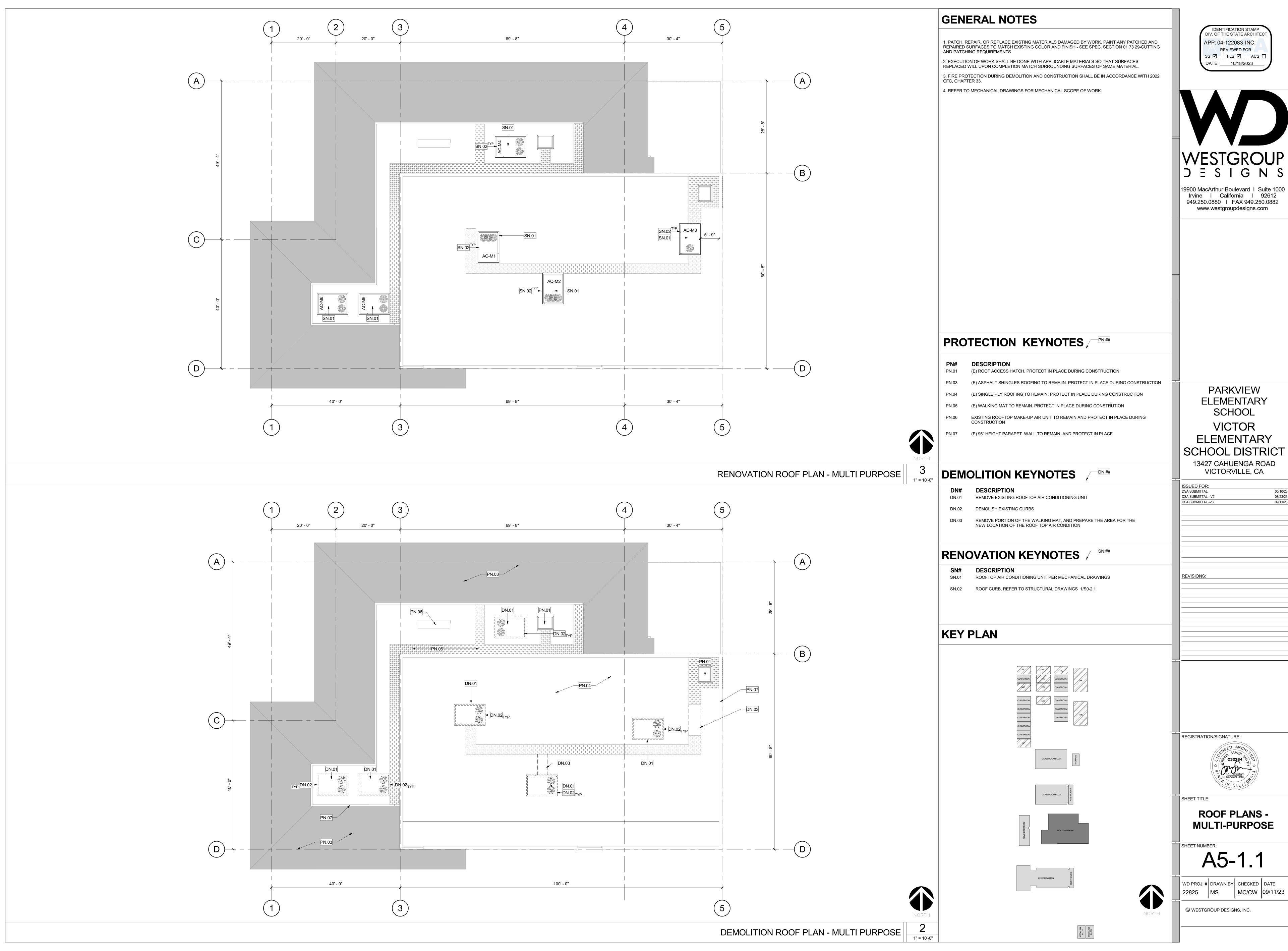
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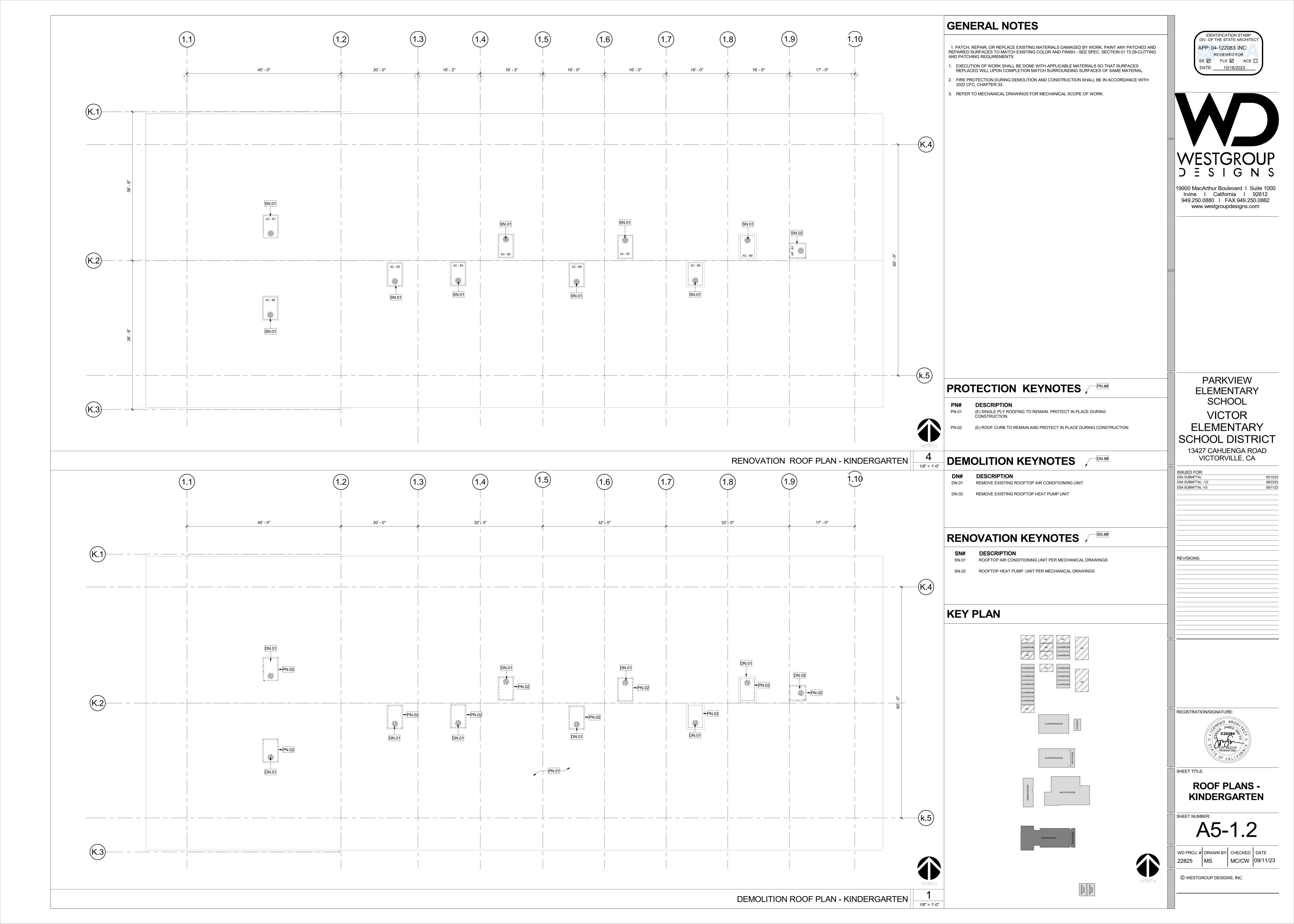


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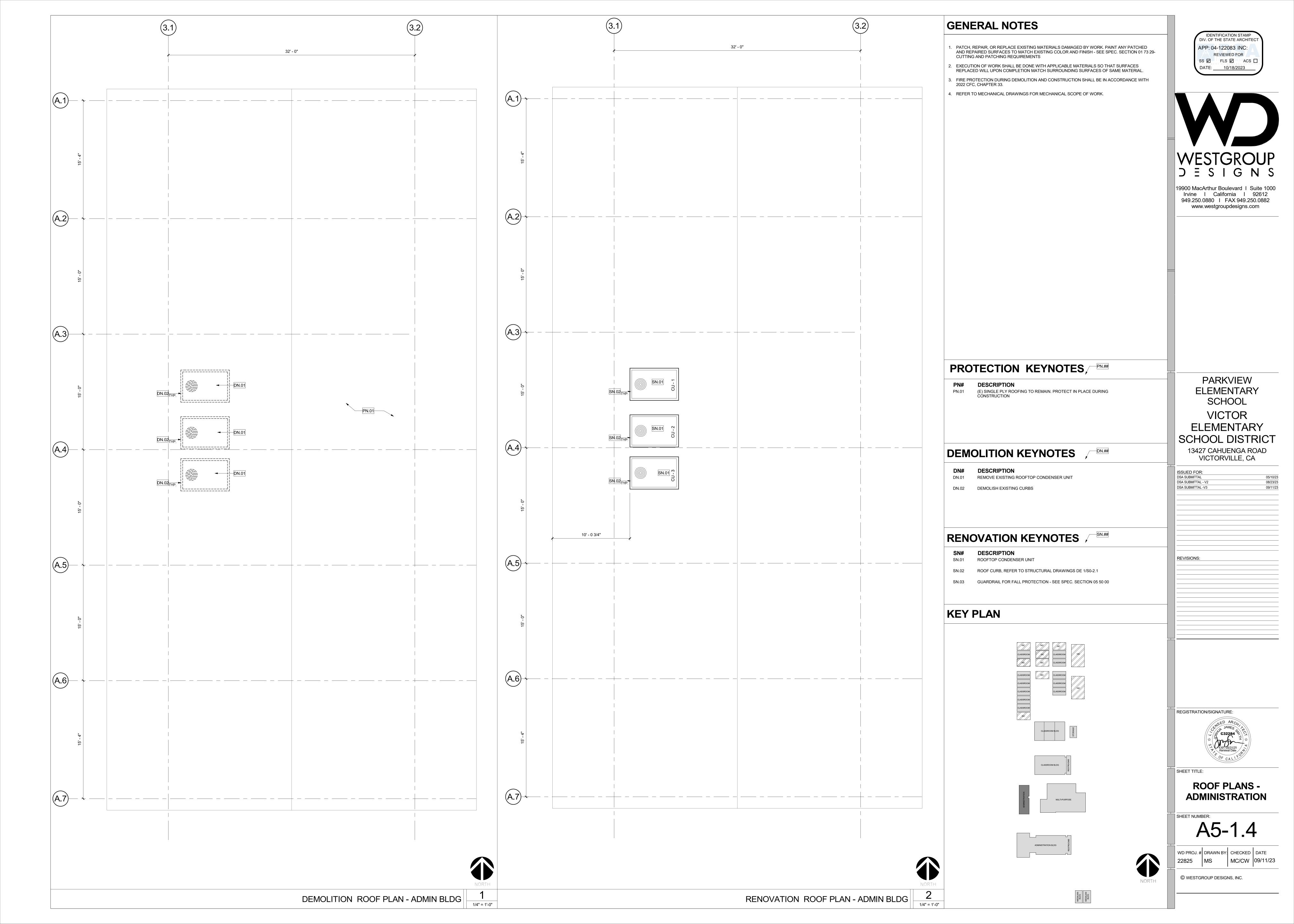
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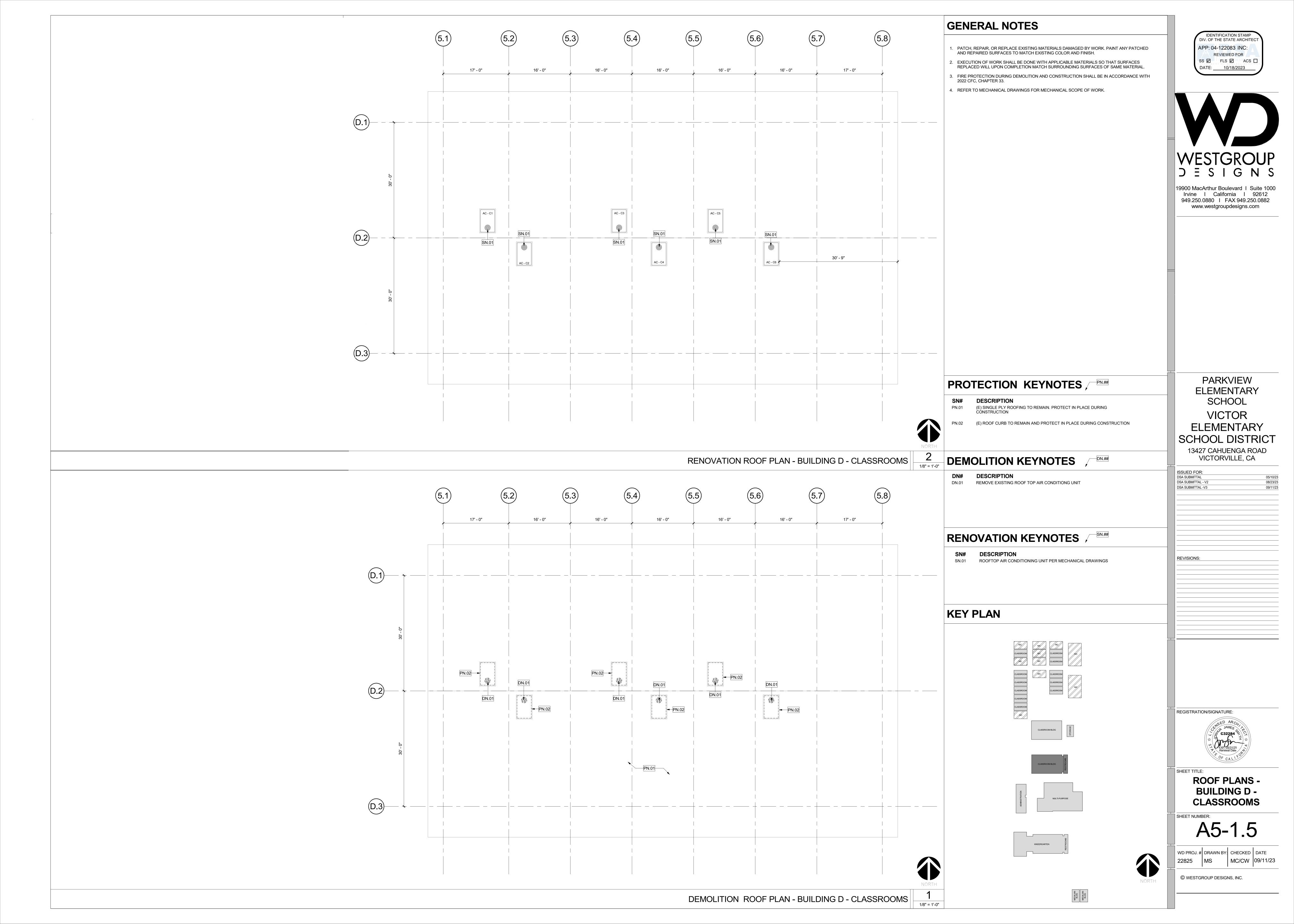
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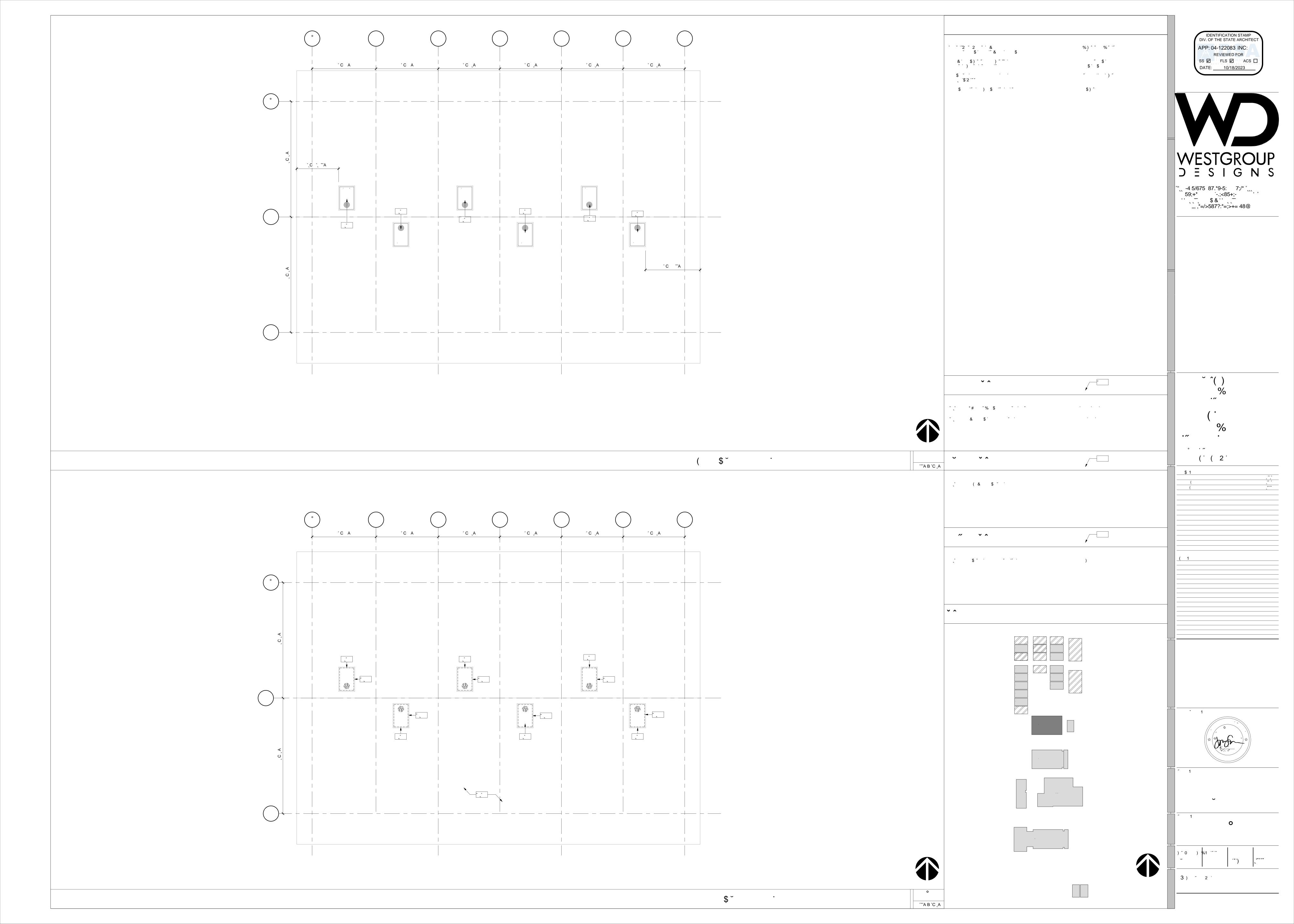
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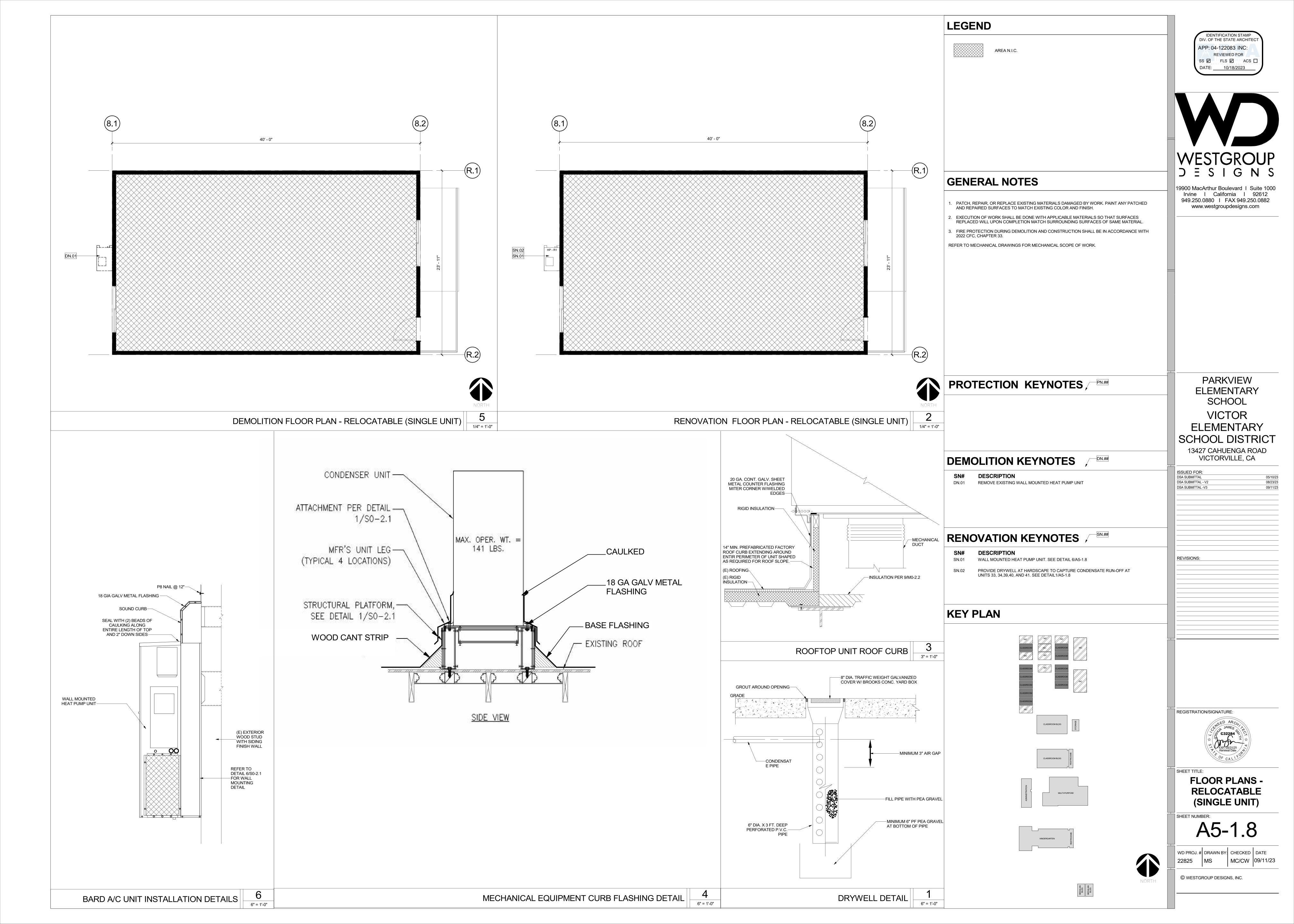




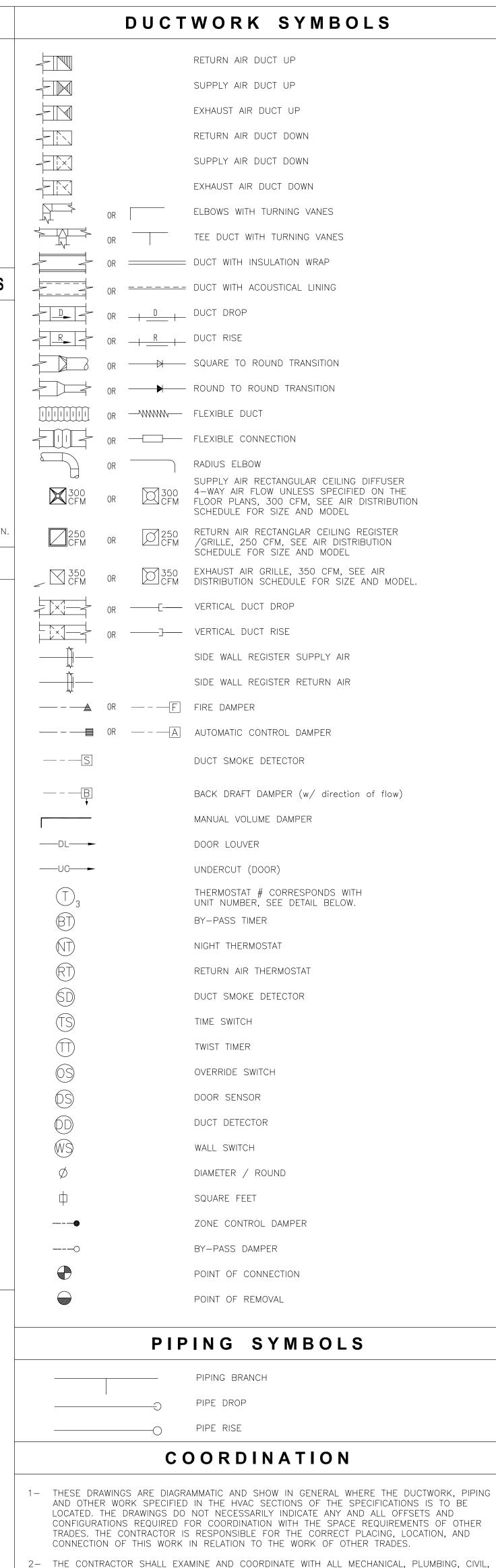








#### MECHANICAL ABBREVIATIONS AND SYMBOLS LIST APPLICABLE CODES MECHANICAL ABBREVIATIONS AUTOMATIC AIR VENT MANUAL AIR VENT LIST OF APPLICABLE CODES AIR CONDITIONING MAX MAXIMUM AUTOMATIC CONTROL DAMPER MB MIXING BOX 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR AIR CONDITIONING UNIT THOUSAND BTU PER HOUR 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR AUTOMATIC CONTROL VALVE MCC MOTOR CONTROL CENTER 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR ACCESS DOOR MG GAS - MEDIUM PRESSURE 2022 CALIFORNIA MECHANICAL CODE (CMC). PART 4, TITLE 24 CCR MIN MINIMUM 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR ABOVE FINISHED FLOOR MOT MOTOR 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR AUTOMATIC FIRE SPRINKLER MPR MEDIUM PRESSURE RETURN 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR AIR HANDLING UNIT MPS MEDIUM PRESSURE STEAM 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen), PART 11, TITLE 24 CCR AMB MAKE-UP WATER 2022 CALIFORNIA REFERENCED STANDARDS CODE. PART 12. TITLE 24 CCR AMD AIR MEASURING DEVICE MOTOR OPERATED VALVE TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS MANUAL VOLUME DAMPER ANV ANGLE VALVE MZ-AHU MULTI-ZONE AIR HANDLING UNITS APPLICABLE STANDARDS ACCESS PANEI ARCH ARCHITECTURA NORMALLY CLOSED FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA NIC NOT IN CONTRACT STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80. AUTOMATIC TEMPERATURE CONTROL NO NORMALLY OPEN NUMBER THERMOSTAT MOUNTING HEIGHTS / OVER OBSTRUCTIONS NPSH NET POSITIVE SUCTION HEAD BALANCING COCK BDD BACK DRAFT DAMPER NTS NOT TO SCALE BFV BUTTERFLY VALVE OPPOSED BLADE DAMPER BRAKE HORSEPOWER BACKWARD INCLINED OAI OUTSIDE AIR INTAKE TOP OF THERMOSTAT TOP OF THERMOSTAT, BACKWARD INCLINED WHEEL OUTSIDE DIAMETER -24" MAX<del>---</del> SWITCHES, AND CONTROLS. BLV OPW OPERATING WEIGHT BALL VALVES BRITISH THERMAL UNIT OUTSIDE AIR BTUH OUTLET VELOCITY BTU PER HOUR OV BALANCING COCK OPNG OPENING BOP BOTTOM OF PIPE 46"MAX-SIDE APPROACH 48" MAX BOD BOTTOM OF DUCT PRESSURE DROP 44"MAX-FRONT APPROACH PERFORATED (FACE) AT ACCESSIBLE WORKSTATION PRESSURE GAUGE CEILING DIFFUSER PHASE (ELECTRICAL) CFM CUBIC FEET PER MINUTE POC POINT OF CONNECTION CHWR CHILLED WATER RETURN POR POINT OF REMOVAL FINISHED FLOOR CHWS CHILLED WATER SUPPLY PRSS PRESSURE CLG CEILING PRV PRESSURE REDUCING VALVE COMP COMPRESSOR PRESSURE SWITCH COND CONDENSATE POUNDS PER SQUARE INCH PROVIDE A 30"Wx27"Hx19"D MIN. TOE/KNEE CLEARANCE FOR FRONT APPROACH OVER OBSTRUCTION. CONT CONTINUATION PSIA PSI ABSOLUTE COP COEFFICIENT OF PERFORMANCE PSIG PSI GAUGE MEP COMPONENT ANCHORAGE NOTE FACTORY-FABRICATED COOLING TOWER PT PLUGGED TEE PRESSURE-TEMPERATURE RELIEF CU CONDENSING UNIT CHECK VALVE VALVE CV FLOW COEFFICIENT PVC POLYVINYL CHLORIDE PIPE ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND CONDENSER WATER RETURN INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE CONDENSER WATER SUPPLY FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND RISE DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH RATED LOAD (AMPERAGE) 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26, AND 30: DEMAND CONTROLLED VENTILATION RETURN AIR RETURN AIR REGISTER $\mathsf{D}\!-\!\mathsf{D}$ DOUBLE DEFLECTION (PATTERN) RAG RETURN AIR GRILLE 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. DUCT ACCESS DOOR RECTANGULAR (FACE) 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD REFRIGERANT DISCHARGE LINE WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER. DRY BULB RD DEMAND CONTROLLED VENTILATION "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS RD ROOF DRAINS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE. DIAM DIAMETER REG REGISTER DIFF DIFFUSER RELIEF GRILLE 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR DOOR LOUVER HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF REHEATING COIL LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A DRAIN REFRIGERANT LIQUID LINE — - — S MANNER APPROVED BY DSA. REVOLUTION PER MINUTE E (NAME) EXISTING PIPE RS REFRIGERANT SUCTION LINE EXTERNAL STATIC PRESSURE RELIEF VALVE THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO RV THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES EXHAUST AIR EAR EXHAUST AIR REGISTER SUPPLY AIR NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS EER ENERGY EFFICIENCY RATIO SAC SPLIT AIR CONDITIONER EXHAUST FAN SUPPLY AIR DIFFUSER MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS. ——DL—**—** EXPANSION JOINT SAR SUPPLY AIR REGISTER SD ELEC ELECTRICAL A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 SMOKE DETECTOR ——UC—**►** ENT ENTERING SEASONAL ENERGY-EFFICIENCY RATIO FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE ER ECCENTRIC REDUCER SENS SENSIBLE EWT ENTERING WATER TEMPERATURE SF SUPPLY FAN B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEM, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR EXH SHR SENSIBLE HEAT RATIO FXHAUS] SMACNA SHEET METAL & AC NATIONAL ASSOCIATION FILTER DEGREE FAHRENHEIT AUTOMATIC SMOKE DAMPER THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE F&BP FACE AND BYPASS DAMPERS SOH SHUT OFF HEAD SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE FLOAT AND THERMOSTATIC TRAPS SOV SHUT OFF VALVE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT STATIC PRESSURE INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN FLA FULL LOAD AMPERAGE SPEC SPECIFICATION ACCORDANCE WITH THE ABOVE REQUIREMENTS. FLEXIBLE CONNECTION SQUARE (FACE) FAN COIL UNIT SQ.FT. SQUARE FOOT PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE FCU PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY FIRE DAMPER SOUND TRAP FIN FINISHED STRAINER WITH THE FORCES AND DISPLACEMENT PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED FLR FLOOR IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND THE 2022 CBC, SECTIONS FPM FEET PER MINUTE THROW AWAY (FILTER) 1617A.1.24, 1617A.1.25 AND 1616A.1.26. FPS FEET PER SECOND TEMPERATURE CONTROL TCP FLOW SWITCH TEMPERATURE CONTROL PANEL THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED AUTOMATIC TEMPERATURE CONTROL TCV DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENT ARE BASED ON FF FINISHED A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF TRANSFER DUCT THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE TDH TOTAL DYNAMIC HEAD PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION TOTALLY ENCLOSED FAN—COOLED SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE GALLON GALVANIZED MOTOR STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. GALV TOP GAS COCK TOP OF PIPE TOD GLOBE VALVE TOP OF DUCT MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL GLV GPM TEMP TEMPERATURE DISTRIBUTION SYSTEM (E): GALLONS PER MINUTE GV GATE VALVE TRANSFER GRILLE MP□ MD☒ PP□ E□ OPTION 1: DETAILED ON THE APPROVED DRAWING WITH PROJECT THERMOMETER TURNING VANES SPECIFIC NOTES AND DETAILS. HB HOSE BIBB THERMOMETER WELL HEATING COIL TYP TYPICAL $\mathsf{MP}\square$ $\mathsf{MD}\square$ $\mathsf{PP}\square$ $\mathsf{E}\square$ $\mathsf{OPTION}$ 2: SHALL COMPLY WITH HCAI (OSHPD) PRE—APPROVAL (OPM#) HEPA-AF HIGH EFFICIENCY PARTICULATE AIR FILTERS UNDERCUT (DOOR) HORSEPOWER UH UNIT HEATER HIGH PRESSURE RETURN UNDERWRITERS LABORATORY HPS HIGH PRESSURE STEAM UNION UN HEATING, VENTILATING AND UTR UP THRU ROOF AIR-CONDITIONING UV UNIT VENTILATOR VENT OR ATMOSPHERIC RELIEF HWR HOT WATER RETURN HWS VACUUM VAC VARIABLE AIR VOLUME VOLUME DAMPER VERTICAL IN-LINE VENT THRU ROOF LOCKED ROTOR (AMPERAGE) LEAVING AIR TEMPERATURE WIDE W/ WITH LBS POUNDS W-CLR WATER COOLER LINEAR DIFFUSER W C WATER COOLED LEAVING DB TEMPERATURE LIN FT LINEAR FEET W G WATER GAUGE (PRESSURE) W/O WITHOUT LOW-PRESSURE RETURN LPS LOW-PRESSURE STEAM WB WET BULB WBT WET BULB TEMPERATURE LEAVING WB TEMPERATURE WG WATER GAUGE LEAVING WATER TEMPERATURE WMS WIRE MESH SCREEN WORKING PRESSURE DUCTWORK ROOF/WALL OPENINGS AND WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT. 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. THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING: 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 1. 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 UTILITY SERVICES AND DETAILS FOR DUST AND NOISE CONTROL. 1. COORDINATE SEQUENCING AND OWNER OCCUPANCY SPECIFIED IN DIVISION 01. 2. COORDINATE OTHER SELECTIVE DEMOLITION WORK AS OUTLINED IN DIVISION 01. 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 2. LOCATE, IDENTIFY, AND PROTECT MECHANICAL SERVICES PASSING THROUGH DEMOLITION AREA 4 SEQUENCE AND SCHEDULING A. COORDINATE THE SHUT-OFF AND DISCONNECTION OF UTILITY SERVICES WITH THE OWNER AND THE B. NOTIFY THE ARCHITECT AT LEAST 5 DAYS PRIOR TO COMMENCING DEMOLITION OPERATIONS. C. PERFORM DEMOLITION IN PHASES AS INDICATED. 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 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: 2. PERFORM CUTTING AND PATCHING REQUIRED FOR DEMOLITION. 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 DUCTWORK AND PIPING 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. 7- DESIGN CRITERIA GROUND SNOW LOAD = 5 PSF RISK CATEGORY = III BASIC DESIGN WIND SPEED V = 115 MPH

- ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS THAT HAVE BEEN PREPARED FOR THIS PROJECT, AND ACCEPT SUCH CONDITIONS, AND MAKE ALLOWANCES FOR THEM IN PREPARING THE BID.
- 3- COORDINATE FINISHING COLOR OF ALL AIR TERMINALS WITH ARCHITECT. FINISHING COLOR
- SPECIFIED ON EQUIPMENT SCHEDULE IS FOR REFERENCE ONLY. 4- CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR SIZE AND LOCATION OF

#### 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)

- 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.

COMBINATION SMOKE/FIRE DAMPER NOTE

MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY.

DUCT LINING NOTE

1- FIRE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED, UL LISTED AND INSTALLED

STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND LISTING.

GENERAL DEMOLITION NOTES

BARRIERS TO KEEP DIRT. DUST. AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS.

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

REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION OPERATIONS ARE COMPLETE

1. INACTIVE AND OBSOLETE PIPING, FITTINGS AND SPECIALTIES, EQUIPMENT, DUCTWORK,

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.

STRUCTURAL NOTES

CONTROLS, FIXTURES, AND INSULATION.

EXPOSURE CATEGORY = C

SITE CLASS = D-DEFAULT

DETAILS SHOWN ARE FOR REFERENCE ONLY.

SDS = 0.95

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

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

- 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. IO— 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.

2- PROVIDE ALL FRESH AIR INTAKES AND EXHAUST OUTLETS WITH HOOD, 1/2 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

A. GENERAL: DEMOLISH, REMOVE, DEMOUNT, AND DISCONNECT ABANDONED MECHANICAL MATERIALS AND | 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

1- 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.  $\mid$   $\mid$ 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. 3- DO NOT INSTALL THERMOSTATS WHERE THE OPERATION OF THE DEVICE

MAY BE EFFECTED BY:

a. DIRECT SUNSHINE EFFECT.

b. MINIMIZED AIR CIRCULATION (BEHIND THE DOORS OR CABINETS OR SIMILAR LOCATIONS).

c. 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 SHEET NUMBER 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.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-122083 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 10/18/2023



19900 MacArthur Boulevard I Suite 1000 Irvine I California I 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com



1920 E Warner Ave., Suite 3-H Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884-3834 PEI #600.030

**PARKVIEW ELEMENTARY ELEMENTARY** SCHOOL DISTRICT 13427 CAHUENGA ROAD VICTORVILLE, CA 92395

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REGISTRATION/SIGNATURE:

**MECHANICAL ABBREVIATIONS AND** 

**SYMBOLS LIST** 

WD PROJ. # DRAWN BY: CHECKED DATE

#### FURNACE SCHEDULE (GAS FIRED) (ADMINISTRATION BUILDING) UNIT SYMBOL FU-1FU-2FU-3FURNACE CLOSET FURNACE CLOSET FURNACE CLOSET LOCATION MANUFACTURER CARRIER CARRIER CARRIER MODEL 58SU0A100 58SU0A100 58SU0A100 COND. GAS COND. GAS FURNACE UPFLOW URNACE UPFLOW | FURNACE UPFLOW HEATING INPUT-MBH 100 100 100 HEATING OUTPUT-MBH 81 AIRFLOW 1800 1600 1800 OSA — CFM 400 400 400 0.50 EXTERNAL S.P.—"WG 0.50 0.50 13.3 / 20 MCA / MOCP 13.3 / 20 13.3 / 20 MOTOR DRIVE DIRECT DIRECT DIRECT AFUE % 80 80 FILTER TYPE/MERV 2" PLEATED/13 2" PLEATED/13 2" PLEATED/13 115 — 1 VOLTS - PHASE 115 - 1 115 - 1 COIL (UNIT SYMBOL) CC-1CC-2CC-3DIMENSIONS (L"xW"xH") 29.5 x 21 x 33.3 | 29.5 x 21 x 33.3 | 29.5 x 21 x 33.3 OPERATING WEIGHT-LBS 150 150 150

#### CONDENSING UNIT SCHEDULE (OUTDOOR UNIT) (ADMINISTRATION BUILDING) UNIT SYMBOL CU-1CU-2CU-3SERVING FU-1FU-2FU-3MANUFACTURER CARRIER CARRIER CARRIER MODEL 24SPA660 24SCA548 24SPA660 TYPE SPLIT-DX SPLIT-DX SPLIT-DX COMPRESSOR QUANTITY/REF. 1/410A 1/410A 1/410A COMPRESSOR - RLA 25.6 25.0 25.6 FAN QUANTITY 1.40 1.52 1.40 FAN - FLA VOLTS - PHASE 208/230 - 1 208/230 - 1 208/230 - 1 MCA / MOCP 33.4 / 50 32.8 / 50 33.4 / 50 31.2 x 31.2 x 33.9 31.2 x 31.2 x 32 31.2 x 31.2 x 33.9 DIMENSIONS (L"xW"xH")

1/M0-2.1

1/M0-2.1

199

6/M0-2.1

1, 2

1/M0-2.1

242

6/M0-2.1

1, 2

#### REMARKS:

REMARKS:

OPERATING WEIGHT - LBS

DETAIL REFERENCE

DETAIL REFERENCE

1- PROVIDE ANY ADDITIONAL ACCESSORIES RECOMMENDED BY MANUFACTURER FOR COMPLETE INSTALLATION AND SATISFACTORY PERFORMANCE OF THE UNIT.

242

6/M0-2.1

1, 2

2- REFRIGERANT PIPES SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION BASED ON ACTUAL LENGTH BETWEEN COOLING COIL AND OUTDOOR UNIT.

3- WEIGHT DOES NOT INCLUDE THE WEIGHT OF THE EXISTING ROOF CURB.

(ADMINISTRATI	ON DOILDIN	G)	(DIRECT EXPANSION)
UNIT SYMBOL	CC-1	CC-2	CC-3
LOCATION	MECHANICAL ROOM	MECHANICAL ROOM	MECHANICAL ROOM
MANUFACTURER	CARRIER	CARRIER	CARRIER
MODEL	CAPMP6121ALA	CAPMP4821ALA	CAPMP6121ALA
SERVICE	FU-1	FU-2	FU-3
CFM	1800	1600	1800
EAT — °F — DB	80.0	80.0	80.0
EAT - °F - WB	67.0	67.0	67.0
LAT — °F — DB	58.15	59.14	58.15
LAT - °F - WB	56.98	57.66	56.98
COIL P.D "WG	0.327	0.327	0.327
EXTERNAL S.P "WG	0.75	0.75	0.75
REFRIGERANT	410A	410A	410A
TOTAL/SENS. CAPACITY - MBH	57.1/42.7	47.7/36.0	57.1/42.7
SIZE W"xL"xH"	24.5 × 20.6 × 35	29.8 × 20.6 × 21	24.5 x 20.6 x 3
OPERATING WEIGHT (LBS.)	98.5	84.0	98.5

1- INSTALL COOLING COIL PER MANUFACTURER'S RECOMMENDATIONS AND GUIDELINES.
2- REFRIGERANT PIPES SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION BASED ON ACTUAL LENGTH BETWEEN COOLING COIL AND OUTDOOR UNIT.
3- CONNECT REFRIGERANT PIPES BETWEEN COIL AND OUTDOOR UNIT PER MANUFACTURER'S

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 04-122083 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 10/18/2023



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1920 E Warner Ave., Suite 3—H Santa Ana, CA 92705 Telephone (714) 884—3834 Fax (714) 884—3834 PEI #600.030

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SCHOOL
VICTOR
ELEMENTARY
SCHOOL DISTRIC

13427 CAHUENGA ROAD
VICTORVILLE, CA 92395

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REVISIONS:

REGISTRATION/SIGNATURE:



SHEET TITLE:

MECHANICAL SCHEDULES

SHEET NUMBER:

MO-1 \_

WD PROJ. # DRAWN BY: CHECKED DATE 07/24/23

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EXISTING WALL MOUNTED HEAT PUMP AND NEW WALL MOUNTED HEAT PUMP COMPARISON SCHEDULE								
RELOCATABLE NUMBER	20 AND 22	21	23 AND 24 26					
UNIT SYMBOL	HP-R1	HP-R2	HP-R2					

RELOCATABLE NUMBER	20 AN	ND 22	2	21	23 AND 24 26		
UNIT SYMBOL	HP-	-R1	HP-	-R2	HP-R2		
MANUFACTURER	BARD	BARD	EUBANK	BARD	BARD	BARD	
CONDITION	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	
MODEL	WH36HA	T42S1	H448B	T48S1	WH48HA	T48S1	
TYPE	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	
CFH INPUT	N/A	N/A	N/A	N/A	N/A	N/A	
DIMENSIONS (H"xW"xD") - IN	74.563 x 38.200 x 17.125	84.875 x 42.075 x 22.432	87 x 41 x 24	93 x 42.075 x 22.432	84.875 x 42.075 x 22.432	93 x 42.075 x 22.432	
WALL SOUND CURB WEIGHT — LBS	N/A	170	N/A	N/A	N/A	N/A	
UNIT WEIGHT — LBS	391	545	524	605	530	605	
TOTAL WEIGHT — LBS	391	715	524	605	530	605	

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

RELOCATABLE NUMBER	32 AND 33 40 AND 41		
UNIT SYMBOL	HP-	-R2	
MANUFACTURER	BARD	BARD	
CONDITION	EXISTING	NEW	
MODEL	WH421	T48S1	
TYPE	ELECTRIC	ELECTRIC	
CFH INPUT	N/A	N/A	
DIMENSIONS (H"xW"xD") - IN	84.875 x 42.075 x 22.432	93 x 42.075 x 22.432	
UNIT WEIGHT — LBS	555	605	
TOTAL WEIGHT - LBS	555	605	

### POWER EXHAUST SCHEDULE (FOR PACKAGED AIR CONDITIONER UNITS) (BUILDING M - MULTI-PURPOSE)

,		, (	,
UNIT SYMBOL	PE-M1	PE-M2	PE-M4
SERVICE	AC-M1	AC-M2	AC-M4
MANUFACTURER	MICROMETL	MICROMETL	MICROMETL
MODEL	PCD-SRT05CA-D-2L2	PCD-SRT05CA-D-2L2	PCD-SRT34CA-D-2L2
CONTROL TYPE	DIFFERENTIAL DRY BULB TEMPERATURE	DIFFERENTIAL DRY BULB TEMPERATURE	DIFFERENTIAL DRY BULB TEMPERATURE
TYPE	MODULATING	MODULATING	MODULATING
MOTOR SIZE — HP	2.0	2.0	1.0
VOLTAGE / PHASE	208 / 3	208 / 3	208 / 3
FLA	9.5	9.5	6.4
MCA / MOCP	11.9 / 21.4	11.9 / 21.4	8.0 / 14.4
WEIGHT (LBS.)	230	230	215
REMARKS	1,2	1,2	1,2

#### REMARKS

- 1- PROVIDE SEPARATE POWER SOURCE AND DISCONNECT TO POWER EXHAUST UNIT. PASS-THRU POWER FROM
- AIR CONDITIONING UNIT TO POWER EXHAUST IS NOT ACCEPTABLE. 2- POWER EXHAUST SHALL RELIEVE THE EXCESS AIR TO MAINTAIN BUILDING PRESSURE DURING UNIT OPERATION. POWER EXHAUST SHALL BE CAPABLE OF 100% ECONOMIZER MODE TO RELIEVE 100% AIR.

UNIT	SYMBOL	HP-R1	HP-R2
LOCA	TION	RELOCATABLE CLASSROOMS	RELOCATABLE CLASSROOMS
SHEE	T REFERENCE	M1-1.1/M2-1.6	M1-1.1/M2-1.6
MANL	JFACTURER	BARD	BARD
MODE	 EL	T42S1-A05DM4XXE	T48S1-A04DM4XXE
TYPE		HEAT PUMP/ WALL MOUNTED	HEAT PUMP/ WALL MOUNTED
SERV	'ICE	SEE FLOOR PLANS	SEE FLOOR PLANS
BLOW	/ER — CFM	1250	1550
EXTE	RNAL S.P. – "WG	0.03	0.03
OUTS	SIDE AIR — CFM	400	450
BLOW	/ER MOTOR — HP	0.75	0.75
	TOTAL CAPACITY - MBH	39.8	46.5
	SENSI. CAPACITY - MBH	29.7	36.0
	EAT - °F - DB	80.0	80.0
NG ING	EAT - °F - WB	67.0	67.0
COOLING	LAT - °F - DB	58.0	58.5
	LAT - °F - WB	57.0	57.6
	AMBIENT AIR TEMP °F	95.0	95.0
	MIN. EER	11.0	11.0
	HEATING INPUT - KW	5.0	4.0
	HEATING CAPACITY - MBH	39.0	43.0
ING	EAT - °F - DB	70.0	70.0
HEATING	LAT - °F - DB	84.3	83.9
	AMBIENT AIR TEMP °F	10.0	10.0
	MIN. COP - %	2.2	2.3
~	SIZE W"xH"xL"	2 × 20 × 30	2 × 20 × 30
FILTER	QUANTITY	1	1
ш	TYPE	2" PLEATED MERV-11	2" PLEATED MERV-
VOLT	S / PHASE	208/230 - 1	208/230 – 1
MCA	/ MOCP	57 / 60	57 / 60
WALL	SOUND CURB MODEL NO.	CFCF53	N/A
OPEF	rating weight	715	605
DIME	NSIONS (H"xW"xD")	84.875 x 42.075 x 22.432	93 x 42.075 x 22.432
DETA	IL REFERENCE	3/M0-2.3	5/M0-2.1
REMA	ARKS	1,2,3,4,5	1,2,3,4,5

- 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. 5- UNIT COMPLETE WITH CONDENSER COIL PROTECTION GRILLES FROM MANUFACTURER FOR
- CLASSROOM RELOCATABLES 28 THRU 35, 40 AND 41.

AIR CON	IDITIONER SCHEDULE (PACKAGE	D) (MULTI-PURPOS	SE BUILDING)				
UNIT SYMBOL		AC-M1	AC-M2	AC-M3	AC-M4	AC-M5	AC-M6
LOCATION		ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
SERVICE		STAFF WORKROOM	STAFF WORKROOM	STAGE	KITCHEN	MULTI-PURPOSE ROOM	MULTI-PURPOS ROOM
SHEET REFERE	ENCE	M2-1.2	M2-1.2	M2-1.2	M2-1.2	M2-1.2	M2-1.2
MANUFACTURE	R	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL		48FCDM16	48FCDM16	48FCEA06	48FCDM08	48FCEA06	48FCDA04
TYPE		GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC
DISCHARGE		DOWN	DOWN	DOWN	DOWN	DOWN	DOWN
Z	INDOOR FAN - CFM	4980	4980	2000	3000	2000	1200
X Y N	MIN. OUTSIDE AIR — CFM	360	360	540	300	720	300
ΥΠΡΡLΥ	EXTERNAL S.P. — "WG	1.40	1.40	1.20	1.60	1.20	1.20
	BLOWER BHP / RPM	2.64 / 1723	2.64 / 1723	1.73 / 2525	2.67 / 1922	1.73 / 2525	0.68 / 2106
	EVAP. EAT — °F — DB	81.4	81.4	82.4	78.1	82.4	81.8
	EVAP. EAT — °F — WB	62.1	62.1	63.3	60.1	63.3	62.5
	EVAP. LAT — °F — DB	55.7	55.7	59.8	58.1	59.8	60.6
	EVAP. LAT — °F — WB	52.3	52.3	55.1	51.4	55.1	54.6
<u>0</u>	CND. EAT — °F — DB	115.0	115.0	115.0	115.0	115.0	115.0
COOLING	COOLING CAPACITY - MBH	138.45	138.45	48.85	72.01	48.85	27.92
O	COOLING CAPACITY SENSIBLE - MBH	138.45	138.45	48.85	64.77	48.85	27.52
	REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 10.8	R410A / 10.8	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6
	ARI EER / SEER OR IEER	10.80 / 14.50	10.80 / 14.50	- / 14.00	11.20 / 15.00	- / 14.00	- / 14.00
	COMPRESSOR INPUT - KW	16.46	16.46	5.14	8.04	5.14	3.04
	INDOOR COIL EAT - °F - DB	65.0	65.0	65.0	65.0	65.0	65.0
HEATING	INDOOR COIL LAT - °F - DB	92.1	92.1	105.7	96.8	105.7	106.7
HEAT	HEATING INPUT - STAGE / MBH	(2) 144.0/180.0	(2) 144.0/180.0	(1) 110.0	(1) 125.0	(1) 110.0	(1) 67.0
	MIN AFUE %	80.0	80.0	80.0	80.0	80.0	81.0
	COMPRESSOR NO. / RLA (EA)	2 / 28.2-19.6	2 / 28.2-19.6	1 / 16.0	2 / 13.1	1 / 16.0	1 / 10.4
	OUTDOOR FAN MOTOR NO. / FLA (EA)	3 / 1.5	3 / 1.5	1 / 1.5	2 / 1.5	1 / 1.5	1 / 1.5
ELECTRICAL	INDOOR FAN MOTOR FLA	7.5	7.5	6.5	7.5	6.5	5.1
ELECT	COMBUSTION FAN MOTOR NO. / FLA (EA)	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48
	MCA / MOP	67 / 80	67 / 80	28 / 40	40 / 50	28 / 40	20 / 30
	VOLTAGE / PHASE	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3
FILTER TYPE		2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-1
CONDENSER C	COIL HAIL GUARD (LOUVERED)	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED
FLUE DEFLECT	ΓOR	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED
ECONOMIZER I	MANUFACTURER / MODEL NO.	CARRIER LOW LEAK	CARRIER LOW LEAK	CARRIER LOW LEAK	CARRIER LOW LEAK	CARRIER LOW LEAK	CARRIER LOW LEAK
POWER EXHAU	JST MANUFACTURER / MODEL NO.	MICROMETL PCD-SRT05CA-D-2L2	MICROMETL PCD-SRT05CA-D-2L2	N/A	MICROMETL PCD-SRT34CA-D-2L2	N/A	N/A
CURB MANUFA	ACTURER / MODEL NO.	MICROMETL CRBV-SRT05GA-2412-P10	MICROMETL CRBV-SRT05GA-2412-P10	MICROMETL CRBW-SRT12HA-2411	MICROMETL IS-2306-003-CBC	MICROMETL CW-2305-060	EXISTING
SHIM CURB M	MANUFACTURER / MODEL NO.	N/A	N/A	N/A	N/A	N/A	N/A
ISOLATION CUI	RB MANUFACTURER / MODEL NO.	INCLUDED W/ CURB	INCLUDED W/ CURB	N/A	INCLUDED W/ CURB	N/A	N/A
operating we	EIGHT (LBS)	2305	2305	769	1687	825	519
DIMENSIONS (	L"xW"xH")	115.9" x 66.4" x 57.4"	115.9" x 66.4" x 57.4"	74.4" x 46.6" x 33.4	"88.1" × 59.5" × 41.3"	74.4" × 46.6" × 33.4"	74.4" × 46.6" ×
DETAIL REFERE	ENCE	2/M0-2.2	2/M0-2.2	6/M0-2.2	2/M0-2.3	6/M0-2.3	9/M0-2.1
REMARKS		1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,5,6,7

#### 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, ECONOMIZER AND POWER EXHAUST (IF APPLICABLE).
  3- PROVIDE DEDICATED SPACE PRESSURE SENSORS IN ALL REQUIRED SPACES AND INTERLOCK WITH UNIT POWER EXHAUST.
- 4- UNIT COMPLETE WITH FACTORY PROVIDED FIRE MARSHAL APPROVED, UL LISTED SMOKE DETECTOR FOR AIR MOVING SYSTEM SUPPLYING IN EXCESS OF 2000 CFM FOR AUTOMATIC SHUT OFF. 5- VARIABLE SPEED INDOOR FAN.

6- PROVIDE LOW SOUND OUTDOOR FAN. 7- PROVIDE FACTORY MOUNTED AND TESTED BIPOLAR IONIZATION SYSTEM PER UNIT SPECIFICATION REQUIREMENTS. MANUFACTURER SHALL PROVIDE A TRANSFORMER PACKAGE TO INTERNALLY POWER THE BIPOLAR IONIZATION.

EXISTING AIR CONDITIONER AND NEW AIR CONDITIONER COMPARISON SCHEDULE (MULTI-PURPOSE BUILDING)												
JNIT SYMBOL	AC-	-M1	AC-	-M2	AC-	-M3	AC-	-M4	AC-	-M5	AC-	-M6
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
CONDITION	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW
MODEL	48PGDM14	48FCDM16	48PGDM14	48FCDM16	48PGLC06	48FCEA06	48PGDM08	48FCDM08	48PGLC06	48FCEA06	48HJL004	48FCDA04
DIMENSIONS (LxWxH) — IN	102.0 x 63.2 x 50.9	115.9 x 66.4 x 57.4	102.0 x 63.2 x 50.9	115.9 x 66.4 x 57.4	84.2 x 48.7 x 43.4	74.4 x 46.6 x 33.4	97.3 x 63.2 x 50.9	88.1 x 59.5 x 41.3	84.2 x 48.7 x 43.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.9	74.4 x 46.6 x 33.4
JNIT WEIGHT — LBS	1820	1412	1820	1412	1050	616	1550	800	1050	616	720	519
CURB WEIGHT — LBS	EXISTING	663	EXISTING	663	EXISTING	153	EXISTING	672	EXISTING	209	EXISTING	EXISTING
SHIM CURB WEIGHT — LBS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOLATION CURB WEIGHT — LBS	EXISTING	2	EXISTING	2	N/A	N/A	EXISTING	2	N/A	N/A	N/A	N/A
CONOMIZER WEIGHT — LBS	1	1)	1)	1)	N/A	1)	N/A	1	N/A	1	N/A	1)
POWER EXHAUST WEIGHT — LBS	1	230	1)	230	N/A	N/A	1	215	N/A	N/A	N/A	N/A
OTAL WEIGHT — LBS	2090	2305	2090	2305	1050	769	1550	1687	1050	825	720	519
PEMARKS												

1— ECONOMIZER AND/OR POWER EXHAUST WEIGHT IS INCLUDED IN TOTAL WEIGHT.
2— ISOLATION CURB WEIGHT IS INCLUDED IN CURB WEIGHT.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-122083 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆



19900 MacArthur Boulevard | Suite 1000 Irvine I California I 92612 949.250.0880 I FAX 949.250.0882 www.westgroupdesigns.com



1920 E Warner Ave., Suite 3-H Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884-3834 PEI #600.030

**PARKVIEW** ELEMENTARY ELEMENTARY 13427 CAHUENGA ROAD VICTORVILLE, CA 92395



**MECHANICAL** 

WD PROJ. # DRAWN BY: CHECKED DATE

	AT PUMP SCHEDULE (PACKAGED) (KIN	
UNIT	SYMBOL	HP-B1
LOCA	ATION	ROOF
SERV	/ICE	DATA ROOM
SHE	ET REFERENCE	M2-1.3
MAN	JFACTURER	CARRIER
MOD	EL	50VT-C36
TYPE		HEAT PUMP/ DOWN DISCHARGE
NAN	INDOOR FAN - CFM	1050
	OUTSIDE AIR — CFM	0
SUPPLY	EXTERNAL S.P "WG	0.75
	MOTOR HP / TYPE / RPM / SPEED	0.5 / DIRECT / HIGH
	EVAP. EAT — °F — DB	80.0
	EVAP. EAT — °F — WB	67.0
	CND. EAT — °F — DB	115.0
COOLING	ARI COOLING CAPACITY — MBH	27.87
	ARI COOLING CAPACITY SENSIBLE — MBH	22.76
	REFRIGERANT TYPE	R410A
	ARI EER / SEER	- / 14.00
	COMPRESSOR INPUT - KW	2.65
	INDOOR COIL EAT — °F — DB	65.0
	INDOOR COIL LAT - °F - DB	92.8
HEATING	OUTDOOR AMBIENT TEMP °F - DB	47.0
HEA	HEATING INPUT — MBH	34.77
	HIGH COP @ 47°F / LOW COP @ 17°F	3.5 / 2.42
	HEATING POWER INPUT — KW	2.65
	COMPRESSOR NO. / RLA (EA)	1 / 10.4
	OUTDOOR FAN MOTOR NO. / FLA (EA)	1 / 1.0
YICAL	INDOOR FAN MOTOR NO. / FLA (EA)	1 / 4.1
FLECIRICAL	COMBUSTION FAN MOTOR FLA (EA)	N/A
ш	MCA / MOCP	18.2 / 25
	VOLTAGE / PHASE	208 / 3
ILTE	ER TYPE	MERV-13
CON	DENSER COIL HAIL GUARD (LOUVERED)	REQUIRED (1)
ECOI	NOMIZER MANUFACTURER / MODEL	N/A
POW	ER EXHAUST MANUFACTURER / MODEL	N/A
CUR	B MANUFACTURER / MODEL	EXISTING
SHIM	CURB MANUFACTURER / MODEL	MICROMETL ADPT-0571-SD-W
)PEI	RATING WEIGHT (LBS)	404
IME	NSIONS (L"xW"xH")	48.3 × 44.2 × 48.
)ETA	IL REFERENCE	3/M0-2.2
REM/	ARKS	1,2,3,4,5,6,7
- 2- 3-	REMARKS  UNIT COMPLETE WITH FACTORY INSTALLED LOUVERED HAIL GUARD PROVIDE EMS THERMOSTAT AND CO2 SENSOR.  PROVIDE SMOKE DETECTION MODULE TO SHUT—DOWN UNIT.  PROVIDE PERMANENT LABEL.  PROVIDE OSA HOOD WITH MANUAL ADJUSTMENT DAMPER — 25% ALUMINUM FILTER).	

- ALUMINUM FILTER).
  6- OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT AND ACCESSORIES.
- 7- PROVIDE FACTORY MOUNTED AND TESTED BIPOLAR IONIZATION SYSTEM PER UNIT SPECIFICATION REQUIREMENTS. MANUFACTURER SHALL PROVIDE A TRANSFORMER PACKAGE TO INTERNALLY POWER THE

#### BIPOLAR IONIZATION.

EXISTING HEAT PUMP AND NEW HEAT PUMP COMPARISON SCHEDULE (KIND	ERGARTEN	BUILDING)
UNIT SYMBOL	HP-	-B1
MANUFACTURER	CARRIER	CARRIER
CONDITION	EXISTING	NEW
MODEL	50HX-036	50VT-C36
DIMENSIONS (LxWxH) - IN	45.5 x 40.25 x 37.4	48.3 x 44.2 x 48.8
UNIT WEIGHT — LBS	460	387
CURB WEIGHT - LBS	EXISTING	EXISTING
SHIM CURB WEIGHT — LBS	N/A	17
ECONOMIZER WEIGHT - LBS	N/A	N/A
POWER EXHAUST WEIGHT — LBS	N/A	N/A
TOTAL WEIGHT — LBS	460	404

AIR COND	ITIONER SCHEDULE (PACKAGED) (KINDE	RGARTEN BUILI	DING)								
UNIT SYMBOL		AC-B1	AC-B2	AC-B3	AC-B4	AC-B5	AC-B6	AC-B7	AC-B8	AC-B9	
LOCATION		ROOF									
SERVICE		KINDERGARTEN 01	KINDERGARTEN 02	KINDERGARTEN 03	CLASSROOM 02	CLASSROOM 01	CLASSROOM 04	CLASSROOM 03	CLASSROOM 06	CLASSROOM 05	
SHEET REFERENC	DE	M2-1.3									
MANUFACTURER		CARRIER									
MODEL		48FCDM07	48FCDM07	48FCDA06							
TYPE		GAS/ELEC									
DISCHARGE		DOWN									
	INDOOR FAN — CFM	1975	1975	1650	1650	1650	1650	1650	1650	1650	
FAN	MIN. OUTSIDE AIR — CFM	525	525	525	525	525	525	525	525	525	
SUPPLY	EXTERNAL S.P "WG	1.00	1.00	0.85	0.85	0.85	0.85	0.85	0.85	0.85	
S	BLOWER BHP / RPM	1.30 / 2298	1.30 / 2298	1.00 / 2103	1.00 / 2103	1.00 / 2103	1.00 / 2103	1.00 / 2103	1.00 / 2103	1.00 / 2103	
	EVAP. EAT — °F — DB	81.0	81.0	84.6	84.6	84.6	84.6	84.6	84.6	84.6	
	EVAP. EAT — °F — WB	63.4	63.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	
	EVAP. LAT - °F - DB	55.1	55.1	57.7	57.7	57.7	57.7	57.7	57.7	57.7	
	EVAP. LAT — °F — WB	53.2	53.2	54.9	54.9	54.9	54.9	54.9	54.9	54.9	
() 	CND. EAT — °F — DB	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	
COOLING	COOLING CAPACITY - MBH	58.49	58.49	47.90	47.90	47.90	47.90	47.90	47.90	47.90	
	COOLING CAPACITY SENSIBLE — MBH	55.18	55.18	47.90	47.90	47.90	47.90	47.90	47.90	47.90	
	REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 7.6									
	ARI EER / SEER OR IEER	11.00 / 15.00	11.00 / 15.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	
	COMPRESSOR INPUT - KW	6.64	6.64	5.08	5.08	5.08	5.08	5.08	5.08	5.08	
	INDOOR COIL EAT — °F — DB	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
HEATING	INDOOR COIL LAT - °F - DB	90.3	90.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	
HEA	HEATING INPUT - MBH / STAGE	(1) 67.0	(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	81.0	
	COMPRESSOR NO. / RLA (EA)	1 / 17.5	1 / 17.5	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	
٩٢	OUTDOOR FAN MOTOR NO. / FLA (EA)	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	
ELECTRICAL	INDOOR FAN MOTOR FLA	5.5	5.5	9.2	9.2	9.2	9.2	9.2	9.2	9.2	
	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	1 / 0.48	1 / 0.48	
	MCA / MOP	29 / 45	29 / 45	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	
	VOLTAGE / PHASE	208 / 3	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									
POWER EXHAUST MANUFACTURER / MODEL NO.		N/A									
CURB MANUFACTU	URER / MODEL NO.	EXISTING									
SHIM CURB MANU	UFACTURER / MODEL NO.	N/A									
OPERATING WEIGH	HT (LBS)	644	644	593	593	593	593	593	593	593	
DIMENSIONS (L"x\	W"xH")	74.4" × 46.6" × 41.4"	74.4" × 46.6" × 41.4"	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"	74.4" × 46.6" × 33.4"	
DETAIL REFERENC	CE	9/M0-2.1									
REMARKS		1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	

REMARKS

- UNIT COMPLETE WITH MODULATING ECONOMIZER WITH 100% OUTSIDE AIR INTAKE, CONVENIENCE OUTLET, LOUVERED HAIL GUARD, FLUE DEFLECTOR.
  OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT, ECONOMIZER AND ACCESSORIES.
  VARIABLE SPEED INDOOR FAN.
- 4- PROVIDE LOW SOUND OUTDOOR FAN.
- 5- PROVIDE FACTORY MOUNTED AND TESTED BIPOLAR IONIZATION SYSTEM PER UNIT SPECIFICATION REQUIREMENTS. MANUFACTURER SHALL PROVIDE A TRANSFORMER PACKAGE TO INTERNALLY POWER THE BIPOLAR IONIZATION.

EXISTING AIR CONDITIONER AND NE	XISTING AIR CONDITIONER AND NEW AIR CONDITIONER COMPARISON SCHEDULE (KINDERGARTEN BUILDING)																	
UNIT SYMBOL	А	C-B1	AC	-B2	AC	-В3	AC-	-B4	AC-	-B5	AC-	-B6	AC-	–B7	AC-	-B8	AC	E-B9
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
CONDITION	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW
MODEL	48JHD00	7 48FCDM07	7 581BPV07	48FCDM07	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06
DIMENSIONS (LxWxH) — IN	73.7 x 45 x 33	.4 74.4 x 46.6 x 41	.4 73.7 x 45 x 33.4	74.4 x 46.6 x 41.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.	4 73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	4 73.7 x 45 x 33.4	74.4 x 46.6 x 33.4
UNIT WEIGHT — LBS	800	644	800	644	800	593	800	593	800	593	800	593	800	593	800	593	800	593
CURB WEIGHT — LBS	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
SHIM CURB WEIGHT — LBS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMIZER WEIGHT — LBS	1	1	1	1	1)	1	1	1)	1	1	1	1	1	1	1	1	1	1
POWER EXHAUST WEIGHT — LBS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL WEIGHT — LBS	800	644	800	644	800	593	800	593	800	593	800	593	800	593	800	593	800	593

REMARKS

1- ECONOMIZER WEIGHT IS INCLUDED IN TOTAL WEIGHT.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-122083 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆



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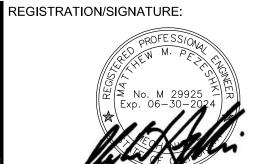


1920 E Warner Ave., Suite 3—H Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884-3834 PEI #600.030

**PARKVIEW** ELEMENTARY **ELEMENTARY** 13427 CAHUENGA ROAD VICTORVILLE, CA 92395

ISSUED FOR:

		_



SHEET TITLE:

**MECHANICAL SCHEDULES** 

SHEET NUMBER:

WD PROJ. # DRAWN BY: CHECKED DATE

UNIT SYMBOL		AC-D1	AC-D2	AC-D3	AC-D4	AC-D5	AC-D6	
LOCATION		ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	
SERVICE		CLASSROOM 15	CLASSROOM 18	CLASSROOM 14	CLASSROOM 17	CLASSROOM 13	CLASSROOM 16	
SHEET REFEREI	NCE	M2-1.5	M2-1.5	M2-1.5	M2-1.5	M2-1.5	M2-1.5	
MANUFACTURER		CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	
MODEL		48FCDA06	48FCDA06	48FCDA06	48FCDA06	48FCDA06	48FCDA06	
TYPE		GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	
DISCHARGE		SIDE	SIDE	SIDE	SIDE	SIDE	SIDE	
	INDOOR FAN — CFM	1650	1650	1650	1650	1650	1650	
Z 4 L	MIN. OUTSIDE AIR — CFM	525	525	525	525	525	525	
XNPPLY	EXTERNAL S.P. — "WG	0.85	0.85	0.85	0.85	0.85	0.85	
S	BLOWER BHP / RPM	0.86/ 1999	0.86/ 1999	0.86/ 1999	0.86/ 1999	0.86/ 1999	0.86/ 1999	
	EVAP. EAT — °F — DB	84.6	84.6	84.6	84.6	84.6	84.6	
	EVAP. EAT — °F — WB	64.6	64.6	64.6	64.6	64.6	64.6	
	EVAP. LAT - °F - DB	57.7	57.7	57.7	57.7	57.7	57.7	
	EVAP. LAT — °F — WB	54.9	54.9	54.9	54.9	54.9	54.9	
COOLING	CND. EAT — °F — DB	115.0	115.0	115.0	115.0	115.0	115.0	
NIOC	COOLING CAPACITY — MBH	47.90	47.90	47.90	47.90	47.90	47.90	
Ö	COOLING CAPACITY SENSIBLE — MBH	47.90	47.90	47.90	47.90	47.90	47.90	
	REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 7.6						
	ARI EER / SEER	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	
	COMPRESSOR INPUT - KW	5.08	5.08	5.08	5.08	5.08	5.08	
	INDOOR COIL EAT — °F — DB	65.0	65.0	65.0	65.0	65.0	65.0	
O Z	INDOOR COIL LAT — °F — DB	95.3	95.3	95.3	95.3	95.3	95.3	
HEAT	HEATING INPUT - MBH / STAGE	(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	
ELECTRICAL	COMPRESSOR NO. / RLA (EA)	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	
_	OUTDOOR FAN MOTOR NO. / FLA (EA)	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	
TRICA	INDOOR FAN MOTOR FLA	9.2	9.2	9.2	9.2	9.2	9.2	
ELEC	COMBUSTION FAN MOTOR NO. / FLA (EA)	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	ROOF  CLASSROOM 16  M2-1.5  CARRIER  48FCDA06  GAS/ELEC  SIDE  1650  525  0.85  0.86/ 1999  84.6  64.6  57.7  54.9  115.0  47.90  47.90  47.90  R410A / 7.6  - / 14.00  5.08  65.0  95.3  (1) 67.0  81.0  1 / 1.5  9.2  1 / 0.48  31 / 45  208 / 3  2" - MERV-13  REQUIRED  REQUIRED  REQUIRED  REQUIRED  MICROMETL  ECH-SRT12CB-DO  N/A  EXISTING  N/A  632	
	MCA / MOP	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	
	VOLTAGE / PHASE	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	
FILTER TYPE		2" - MERV-13						
CONDENSER CO	DIL HAIL GUARD (LOUVERED)	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	
FLUE DEFLECTO	DR	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	
CONOMIZER M	IANUFACTURER / MODEL NO.	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B		
POWER EXHAUS	ST MANUFACTURER / MODEL NO.	N/A	N/A	N/A	N/A	N/A	N/A	
CURB MANUFAC	CTURER / MODEL NO.	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
SHIM CURB MA	NUFACTURER / MODEL NO.	N/A	N/A	N/A	N/A	N/A	N/A	
DPERATING WEI	GHT (LBS)	632	632	632	632	632	632	
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" × 3	
DETAIL REFEREI	NCE	4/M0-2.1	4/MO-2.1	4/M0-2.1	4/M0-2.1	4/M0-2.1		

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, ECONOMIZER AND ACCESSORIES.

3- VARIABLE SPEED INDOOR FAN.
4- PROVIDE LOW SOUND OUTDOOR FAN.
5- PROVIDE FACTORY MOUNTED AND TESTED BIPOLAR IONIZATION SYSTEM PER UNIT SPECIFICATION REQUIREMENTS. MANUFACTURER SHALL PROVIDE A TRANSFORMER PACKAGE TO INTERNALLY POWER THE BIPOLAR IONIZATION.

UNIT SYMBOL	AC	-D1	AC-	-D2	AC-	-D3	AC-	-D4	AC-	-D5	AC-	-D6
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
CONDITION	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW
MODEL	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06
DIMENSIONS (LxWxH) - IN	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	4 73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33
UNIT WEIGHT — LBS	800	558	800	558	800	558	800	558	800	558	800	558
CURB WEIGHT — LBS	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
SHIM CURB WEIGHT — LBS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMIZER WEIGHT — LBS	1)	74	1	74	1	74	1	74	1	74	1	74
POWER EXHAUST WEIGHT — LBS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL WEIGHT — LBS	800	632	800	632	800	632	800	632	800	632	800	632

REMARKS

1- ECONOMIZER WEIGHT IS INCLUDED IN TOTAL WEIGHT.

LOCATION			AC-C2	AC-C3	AC-C4	'	AC-C6
		ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
SERVICE		CLASSROOM 10	CLASSROOM 09	CLASSROOM 11	LIBRARY 08	CLASSROOM 12	LIBRARY 08
SHEET REFEREN	NCE	M2-1.4	M2-1.4	M2-1.4	M2-1.4	M2-1.4	M2-1.4
MANUFACTURER		CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL		48FCDA06	48FCDA06	48FCDA06	48FCDA06	48FCDA06	48FCDA06
ГҮРЕ		GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC
DISCHARGE		SIDE	SIDE	SIDE	SIDE	SIDE	SIDE
	INDOOR FAN — CFM	1650	1650	1650	1650	1650	1650
N A N	MIN. OUTSIDE AIR — CFM	525	525	525	525	525	525
SUPPLY	EXTERNAL S.P. — "WG	0.85	0.85	0.85	0.85	0.85	0.85
S	BLOWER BHP / RPM	0.86 / 1999	0.86 / 1999	0.86 / 1999	0.86 / 1999	0.86 / 1999	0.86 / 1999
	EVAP. EAT — °F — DB	84.6	84.6	84.6	84.6	84.6	84.6
	EVAP. EAT — °F — WB	64.6	64.6	64.6	64.6	64.6	64.6
	EVAP. LAT — °F — DB	57.7	57.7	57.7	57.7	57.7	57.7
	EVAP. LAT — °F — WB	54.9	54.9	54.9	54.9	54.9	54.9
<u>Ö</u>	CND. EAT — °F — DB	115.0	115.0	115.0	115.0	115.0	115.0
COOLING	COOLING CAPACITY - MBH	47.90	47.90	47.90	47.90	47.90	47.90
U	COOLING CAPACITY SENSIBLE — MBH	47.90	47.90	47.90	47.90	47.90	47.90
	REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 7.6	R410A / 7.6				
	ARI EER / SEER	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00
	COMPRESSOR INPUT - KW	5.08	5.08	5.08	5.08	5.08	5.08
	INDOOR COIL EAT - °F - DB	65.0	65.0	65.0	65.0	65.0	65.0
9 2	INDOOR COIL LAT - °F - DB	95.3	95.3	95.3	95.3	95.3	95.3
HEATING	HEATING INPUT - MBH / STAGE	(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
	COMPRESSOR NO. / RLA (EA)	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0
	OUTDOOR FAN MOTOR NO. / FLA (EA)	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5
ELECTRICAL	INDOOR FAN MOTOR FLA	9.2	9.2	9.2	9.2	9.2	9.2
ELECT	COMBUSTION FAN MOTOR NO. / FLA (EA)	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48
	MCA / MOP	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45
	VOLTAGE / PHASE	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3
FILTER TYPE		2" - MERV-13	2" - MERV-13				
	DIL HAIL GUARD (LOUVERED)	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED
FLUE DEFLECTOR	лR	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED
CONOMIZER MA	IANUFACTURER / MODEL NO.	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D
OWER EXHAUS	ST MANUFACTURER / MODEL NO.	N/A	N/A	N/A	N/A	N/A	N/A
CURB MANUFAC	CTURER / MODEL NO.	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
SHIM CURB MAN	NUFACTURER / MODEL NO.	N/A	N/A	N/A	N/A	N/A	N/A
DPERATING WEIG	GHT (LBS)	632	632	632	632	632	632
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" ×
DETAIL REFEREN	NCE	4/MO-2.1	4/M0-2.1	4/M0-2.1	4/M0-2.1	4/M0-2.1	4/M0-2.1

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, ECONOMIZER AND ACCESSORIES.

3- VARIABLE SPEED INDOOR FAN. 4- PROVIDE LOW SOUND OUTDOOR FAN.

5- PROVIDE FACTORY MOUNTED AND TESTED BIPOLAR IONIZATION SYSTEM PER UNIT SPECIFICATION REQUIREMENTS. MANUFACTURER SHALL PROVIDE A TRANSFORMER PACKAGE TO INTERNALLY POWER THE BIPOLAR IONIZATION.

EXISTING AIR CONDITIONER AND NEW AIR CONDITI	ONER	COMPAR	RISON S	SCHEDU	ILE (CLA	ASSROC	OM 9 TH	IRU 12)				
JNIT SYMBOL		AC-C1		AC-C2		AC-C3		AC-C4		-C5	AC	-C6
MANUFACTURER	CARRIER	CARRIER										
CONDITION	EXISTING	NEW										
MODEL	581BPV06	48FCDA06										
DIMENSIONS (LxWxH) - IN	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4
UNIT WEIGHT — LBS	800	558	800	558	800	558	800	558	800	558	800	558
CURB WEIGHT — LBS	EXISTING	EXISTING										
CURB ADAPTER WEIGHT — LBS	N/A	N/A										
ECONOMIZER WEIGHT — LBS	1	74	1)	74	1	74	1	74	1	74	1)	74
POWER EXHAUST WEIGHT — LBS	N/A	N/A										
TOTAL WEIGHT — LBS	800	632	800	632	800	632	800	632	800	632	800	632

REMARKS

1- ECONOMIZER WEIGHT IS INCLUDED IN TOTAL WEIGHT.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122083 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆 DATE: 10/18/2023



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**PARKVIEW** ELEMENTARY 13427 CAHUENGA ROAD VICTORVILLE, CA 92395

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RE'	VIS	101	٧S

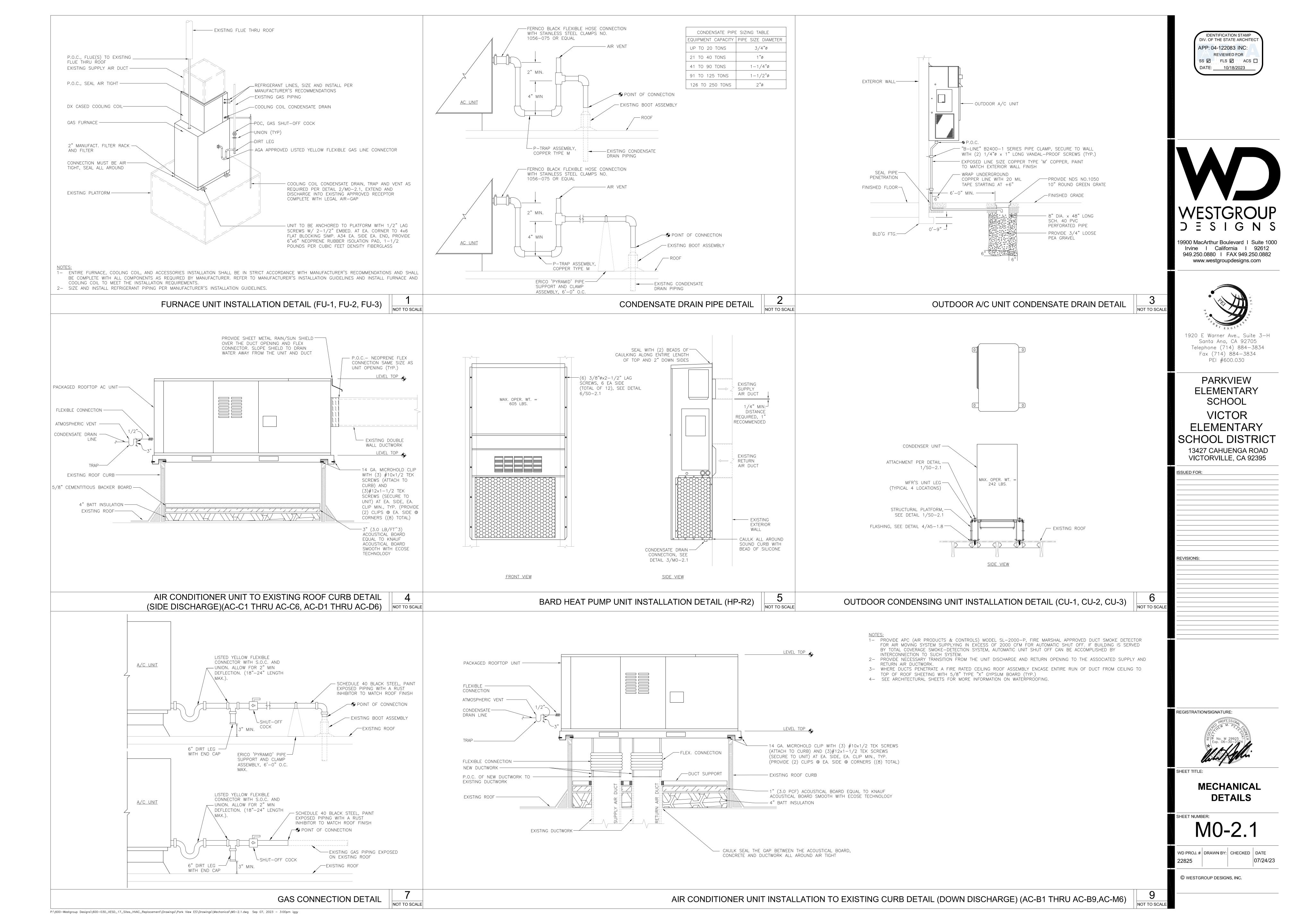
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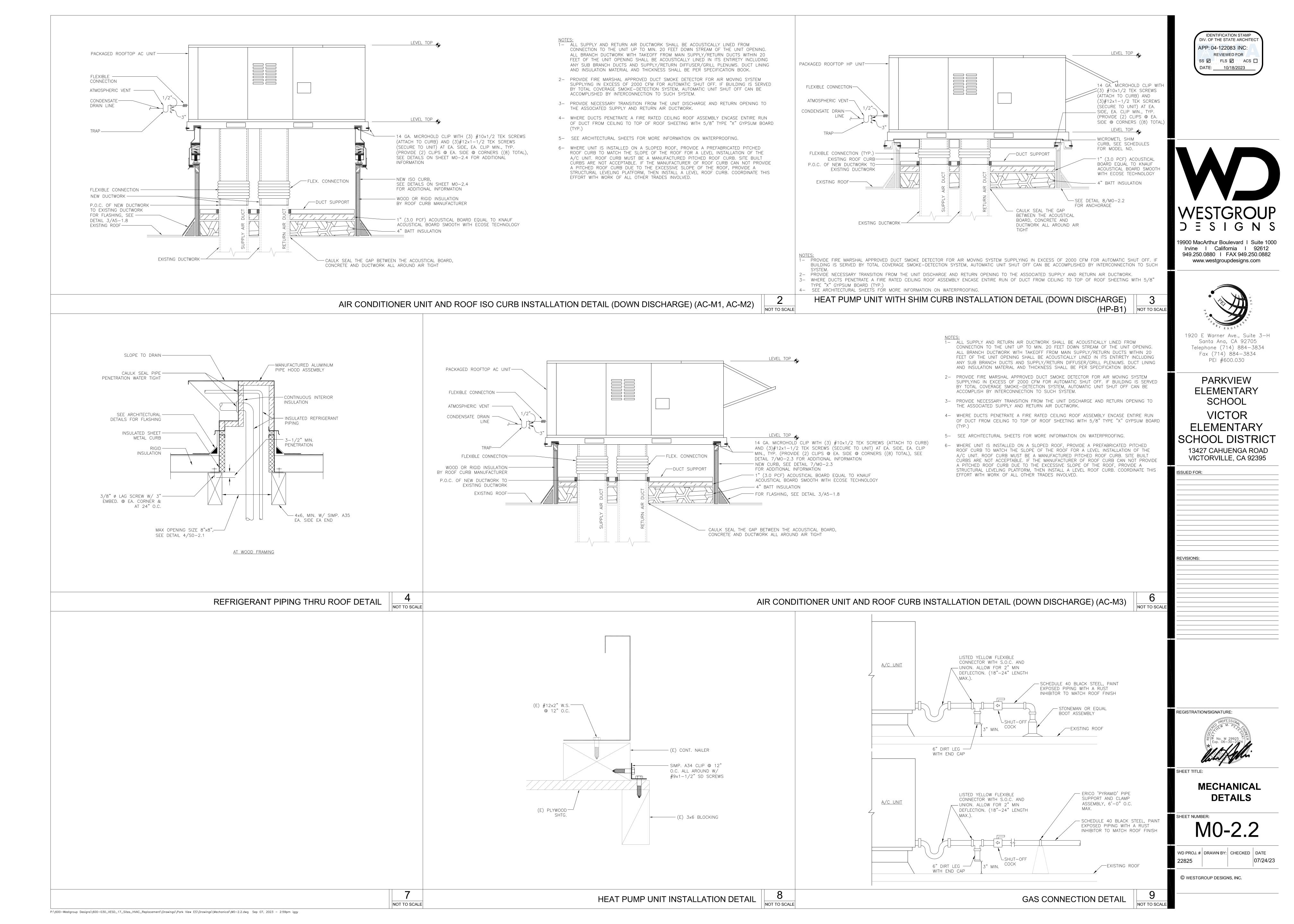


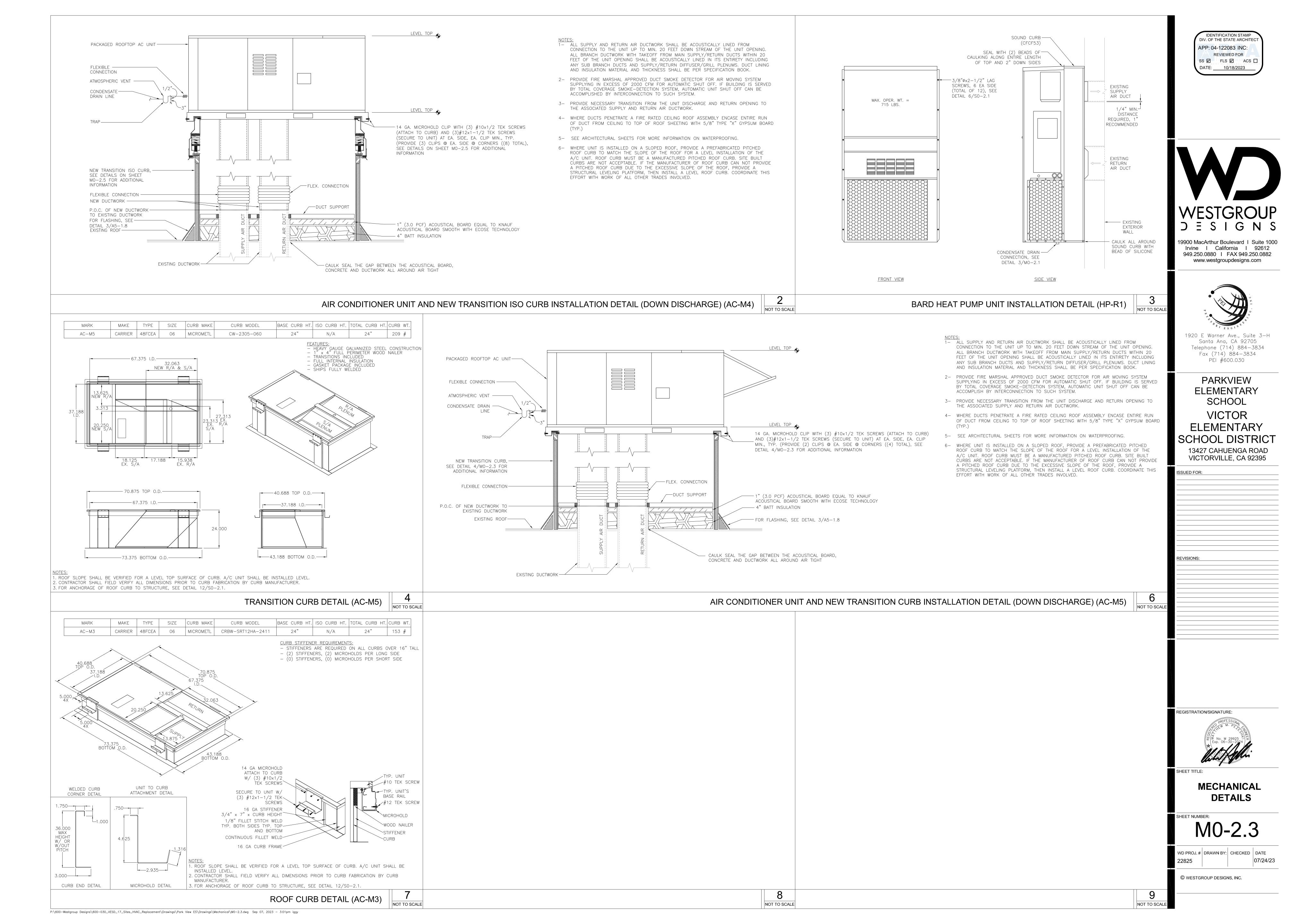
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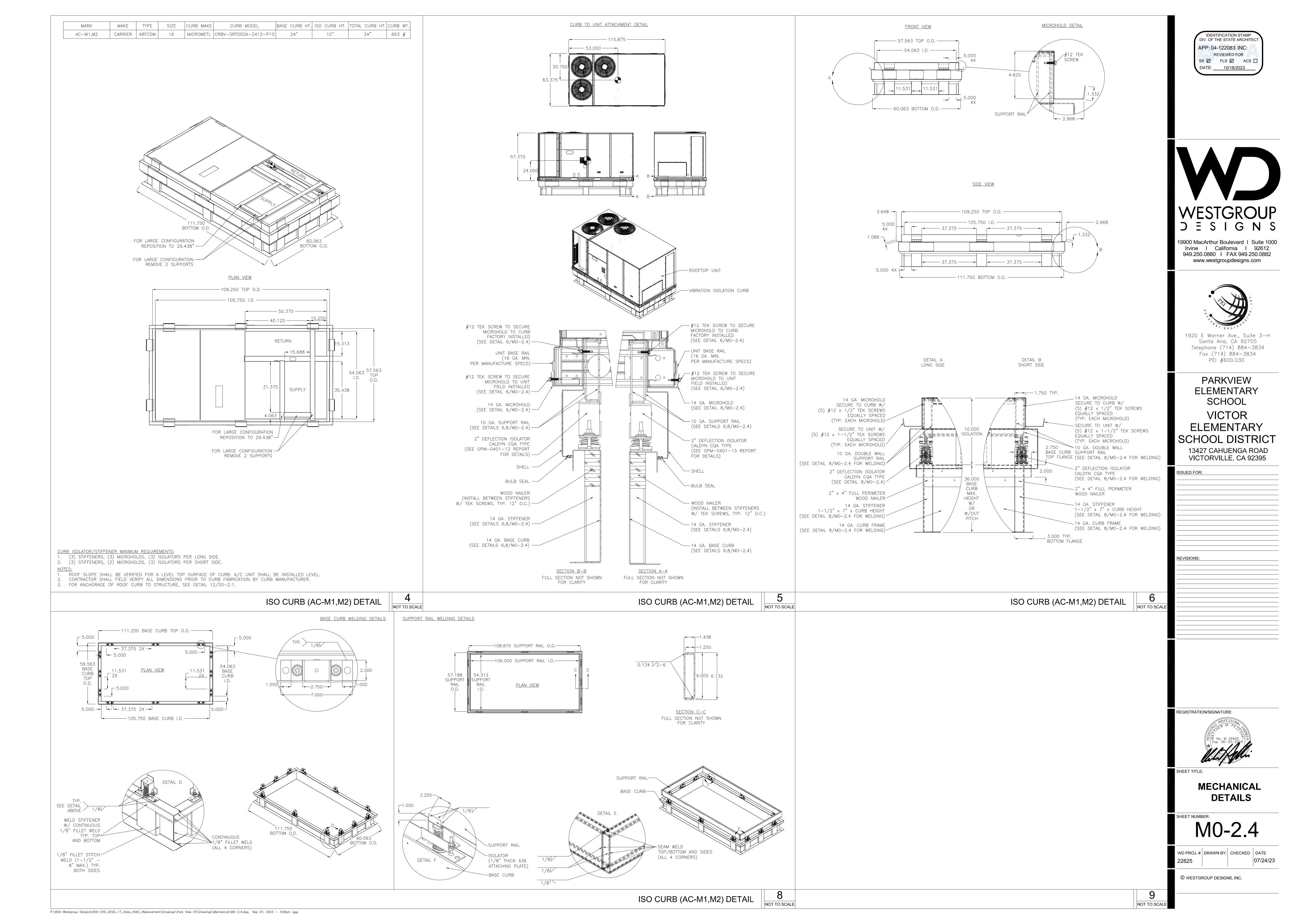
**MECHANICAL SCHEDULES** 

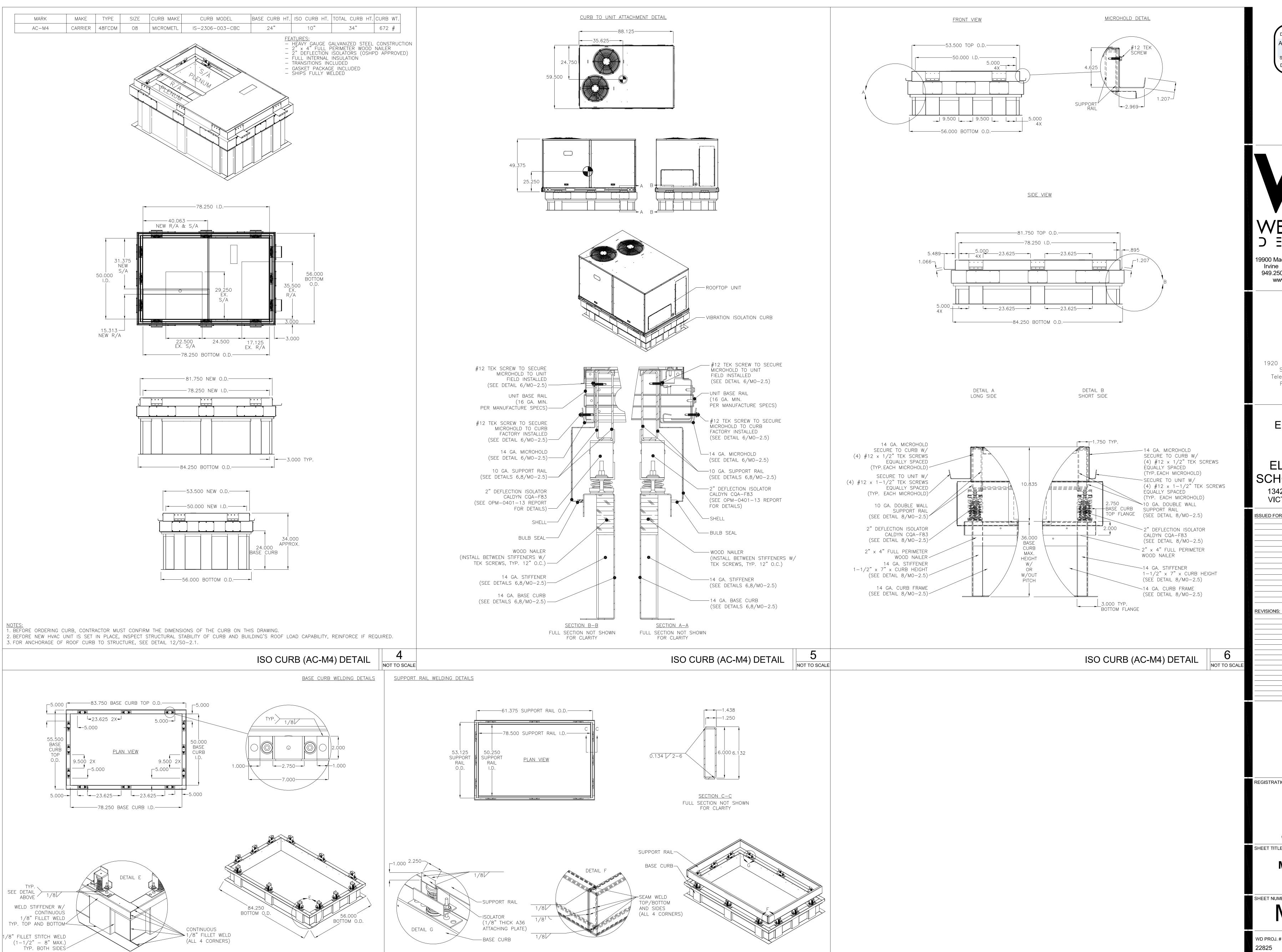
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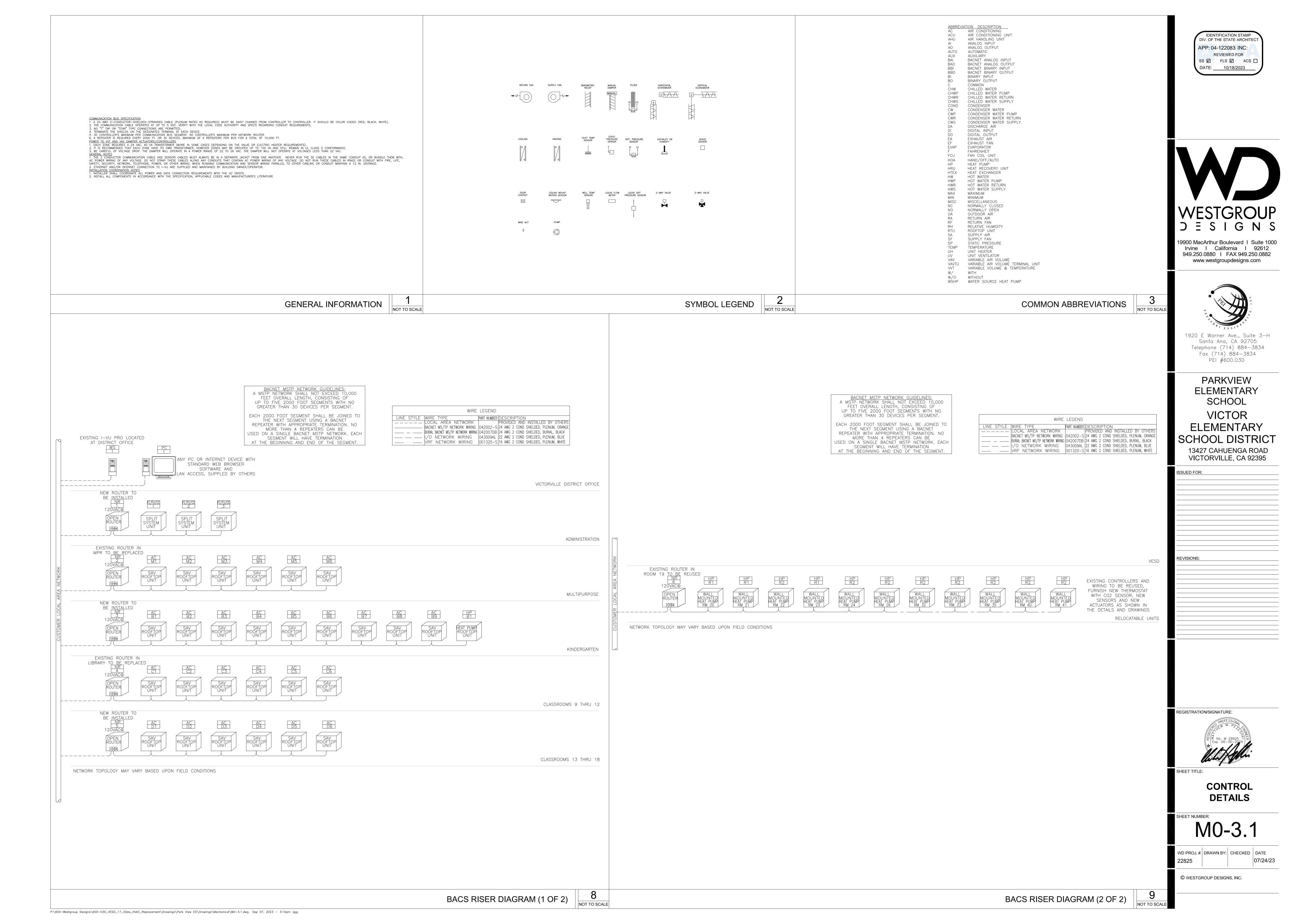
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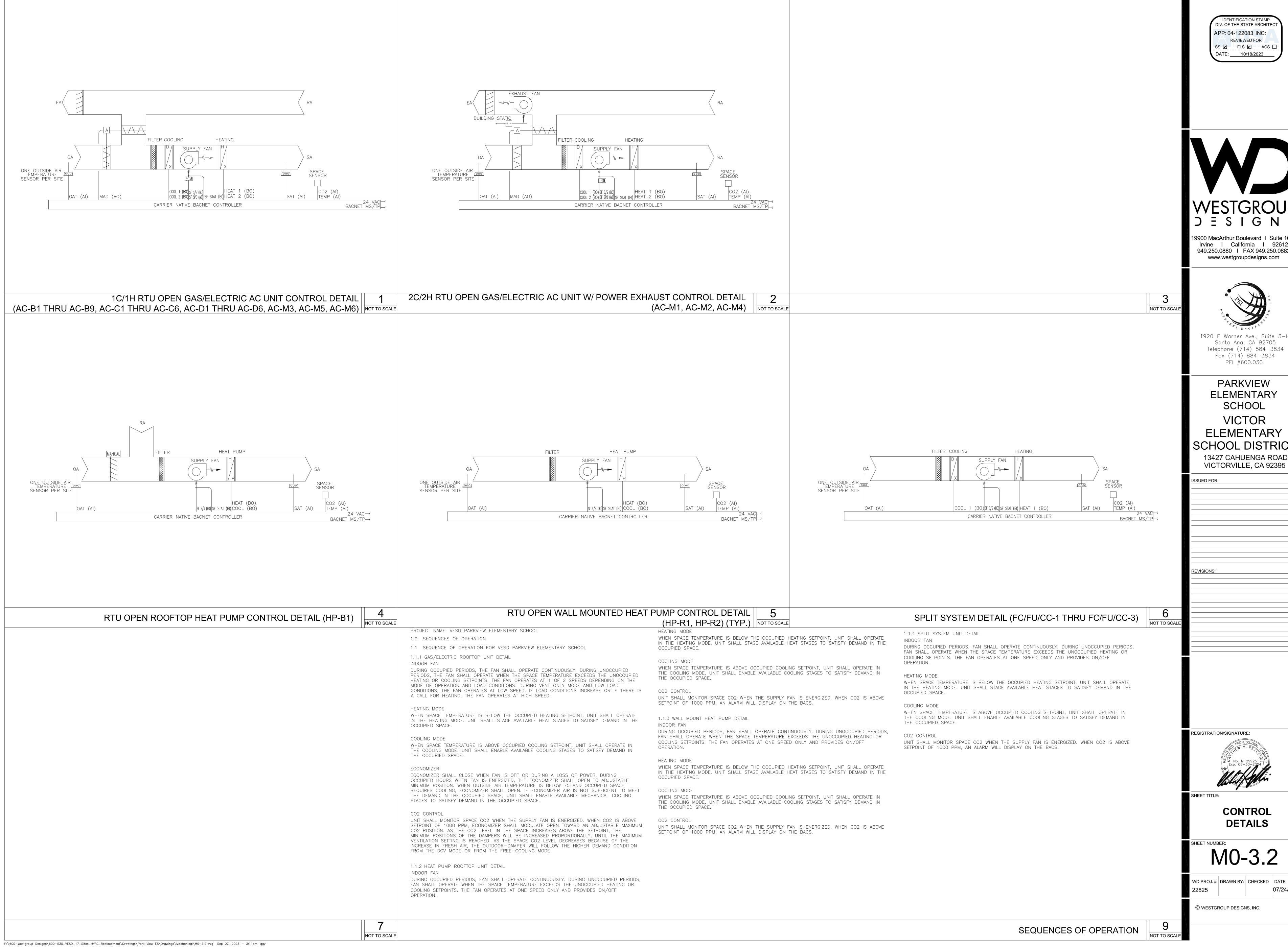
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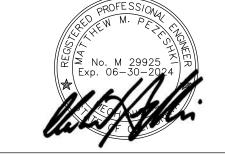
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**PARKVIEW ELEMENTARY ELEMENTARY** SCHOOL DISTRICT 13427 CAHUENGA ROAD



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Mary													
The content is a proper prop	echanical S					CALIFORNIA ENER		Mechanical Systems					CALIFORNIA ENERGY COMMISSION
Company	s document is u th outlined in 14 ject Name: P	sed to demonstrate compliance for mechan 10.4, or 141.0(b)2 for alterations.	Rep	port Page:	application and are a		(Page 1 of 7)	Project Name: Parkview ES					(Page 2 of 7) 2023-05-04T14:32:00-04:00
The content of the	Project Location Climate Zone Occupancy Type School or Classro	pes Within Project;	14	05 Total Uncondit	ioned Floor Area	446		Table C will indicate if the project dat NOT COMPLY" or "COMPLIES with Extended of the project date of the	AND Economizers 140.4(e), 140.4(e),	04  System Controls 110.2, 120.2, 140.4(f),	05	Box AND Distribution 120.3, 140.4(I),	AND Cooling Towers 110.2(e)2 Compliance Results
The content of the	s table Includes	mechanical systems or components that ar 141.0(b)2 and 180.2(b)2 for alterations.		application and are	demonstrating comp		h outlined in	170.2(c) (See Table F) (See Table G)	(See Table H) (	(See Table I) (See Yes AND	ee Table J) (See Table AND	le K) (See Table L)	(See Table M) AND COMPLIES
The content of the		Air System(s) g Air System	Wet System Com Water Economizer	mponents		Dry System Components Air Economizer		D. EXCEPTIONAL CONDITIONS	Mandatory Measure	es Compliance (See Tal	ole Q for Details)	<u>, , , , , , , , , , , , , , , , , , , </u>	COMPLIES
The content of the	LXI	nical Controls (existing to remain, altered	☐ Cooling Towers			Ductwork (existing to remain, a	ltered or new)		ble comments because of se	elections made or data	entered in tables throughou	ut the form.	
The content is a proper part of the content is a proper part						ajtridirori(ge-267804)		This table includes remarks made by		Authority Having Juris	diction.		
Second   Part								01 System Name	02 Quantity	System Serving			e Type Utilizing Recovered Heat
March   Marc	Building Energy		pliance Report Version	ion: 2022.0.000		Compliance ID: 1	105559-0523-0005	CA Building Energy Efficiency Standards	is - 2022 Nonresidential Complia	ance Re	eport Version: 2022.0.000		Documentation Software: Energy Code Ace  Compliance ID: 105559-0523-0005  Report Generated: 2023-05-04 11:32:04
The content of the	echanical S	MPLIANCE	Rep	port Page:		CALIFORNIA ENER	NRCC-MCH-E	Mechanical Systems CERTIFICATE OF COMPLIANCE			Report Page:		CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E  (Page 6 of 7)
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Mary   Control		CONTRACT.						This table is used to indicate where n	mandatory measures are do 01	ocumented in the plan s	et or construction docume		
Mary				If any selection nee	eds to be changed, pl	ease explain why in Table E Addit	tional Remarks.		03		No		04
Company   Comp			npliance_documents/Nonresidention	ial_Documents/NRC	cı/	- N		Cooling Equipment Efficiency per 110	10.1	Weasure		Fidit S	M0-1.1 M0-1.1
Mary	CI-MCH-01-E - N	Must be submitted for all buildings							Section Committee	ols per 110.2(b)			
Companies	ections have be ese documents i	en made based on information provided in must be provided to the building inspector a	previous tables of this document. I Juring construction and can be four	und online at		lease explain why in Table E Addit	tional Remarks.						
An analysis				ial_Documents/NR	CA/	V							
Companies   Comp			CATION			[1-1,2,3							
Control   Cont													
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Mary	en societa esta a successiona		pliance Report Version	ion: 2022.0.000		Compliance ID: 1	105559-0523-0005	C SONS TO STAN SECRET STAN SECRETARY	s - 2022 Nonresidential Complia	ance Re	port Version: 2022.0.000		Documentation Software: Energy Code Ace  Compliance ID: 105559-0523-0005  Report Generated: 2023-05-04 11-32-04
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Mary   Part	TIFICATE OF COM s document is u	APLIANCE sed to demonstrate compliance for mechan	ical systems that are within the sco	cope of the permit o	application and are a		NRCC-MCH-E	CERTIFICATE OF COMPLIANCE	garten		Report Page:		CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E  (Page 2 of 9)
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State   Stat	Project Location							Table C will indicate if the project dat NOT COMPLY" or "COMPLIES with Ex	xceptional Corditions" refer	to Table D., or the table	indicated as not complian	nt for guidance.	
Ministry   1			(	06 # of Stories (Ha	abitable Above Grade	e) 1		Summary 110.1, AND Pumps A	AND Economizers AND	Controls AND Ve	entilation AND Contro	ols AND 120.3,	444 4414
	s table Includes	mechanical systems or components that ar	e within the scope of the permit ap	application and are	demonstrating comp	pliance using the prescriptive path	h outlined in	140.4, 170.2(c)	170.2(c)	140.4(f), 170.2(c)	170.2(c	160.2, 160.3	
The part		01 Air System(s)	Wet System Com	mponents		Dry System Components		Yes AND A				AND	
Mary		g Air System	Pumps			Electric Resistance Heat			ible comments because of se	elections made or data	entered in tables throughou	ut the form.	
Part	IXI		Chillers			Ventilation	Itered or new)		, the exemit audioant to the	Authority Having India	disting		
Part			☐ Boilers			Zonal Systems/ Terminal Boxes		F. HVAC SYSTEM SUMMARY (DRY	Y & WET SYSTEMS)	Authority naving Juris	arction.		
								01 System Name	02 Quantity	System Serving	System Statu		e Type Utilizing Recovered Heat
Section   Continue								AC-B2 AC-B3	1	Single zone Single zone	Alteration Alteration	į.	
Control   Cont	gistration Numbe	er:	Generated D	Date/Time:					1				Documentation Software: Energy Code Ace
Mary   Part	Building Energy	Efficiency Standards - 2022 Nonresdential Comp						CA Building Energy Efficiency Standards	s - 2022 Nonresidential Complia				Compliance ID: 105679-0523-0004 Report Generated: 2023-05-04 12:49:59
Mary   Part	echanical S					CALIFORNIA ENER		Mechanical Systems					CALIFORNIA ENERGY COMMISSION NRCC-MCH-E
The content	ject Name: P	arkview ES -Kindergarten				2023-05-		Project Name: Parkview ES -Kinderga	garten				(Page 6 of 9) 2023-05-04T15:49:55-04:00
	********		densers, heat pumps, VRF, furnace	es and unit heaters	s and DOAS systems	)		CONTRACTOR OF THE CONTRACTOR O	The state of the s	l Air Conditioners (PTA	C) and Package Terminal H	leat Pumps (PTHP), DX-D	OOAS and Dual Fuel Heat Pumps)
Name of the Part of Algoring and the part of	01 OTNOTES: Equip 0.4(a) and 170.2	02 pment shall be the smallest size, within the (c)1. Healthcore facilities are excepted.	03 04 available options of the desired eq	4 05 quipment line, nece	06 07 essary to meet the de	08 09 1 esign heating and cooling loads of		01	02		05 Heating Mode		07 08 09  Cooling Mode
Part	s common prac equipment is he uthority Having	tice to show rated output capacity on the e eating only, leave cooling output and load b Jurisdiction may ask for load calculations u	lank. If equipment is cooling only, I sed for compliance per 140.4(b) an	leave heating outp nd 170.2(c).	out and load blank.					Condition Efficience	Efficiency y Unit Required per Tables 110.2 /	Design Efficiency Efficie	ency Unit Required per Tables 110.2 / Design Efficiency
Sign Congress   Region   Regio			03 04	05		07 08 Cooling Mode					E 0.8	0.8	EER 11 11 SEER 14 14
Model   Mode			Rating Condition Efficiency Unit	Minimum Efficiency Required per D	Design Efficiency Eff	Minimum Efficiency ficiency Unit Required per	Design Efficiency		~05,00U	HSP	8	8 5	nen 14 14
AC	AC-B1	<65kBtuh cooling/ <225kBtuh heating		Title 20	0.8	Title 20 EER 11	10,400000	This section does not apply to this pro					
Account   Acco	AC-B2	<65kBtuh cooling/ <225kBtuh heating	2380000 MANUA		-500	EER 11 SEER 14	11 15	This section does not apply to this pro	PORT OF THE STATE				
AC 55	an applicable	70	27700	- A	700-01	SEER 14 EER 11	14 11	This table is used to demonstrate con		ontrols in 110.2 and 12	0.2 and prescriptive contro		
Section   Continue	14.194.13500P		V-962-00-00		Life State Co.	EER 11 SEER 14 EER 11	11 14 11	Syste	Conditioned	Thermostats	Shut-Off Solution Zone	Demand Response	Supply Air
AC-BB OSSIBULA Cooling/- 4225-88tu-heating AFUE 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	PARESTA	5.00 (100 to 100 to	COAN DATE			EER 11 SEER 14	11 14	System Name Zonir	ing Being Served 160.3(i	a)2A or 141.0(b)2E & 180.2(b)2	120.2(e) & 120.2(g) & 160.3(a)2F	160.3(a)2B	140.4(f) & 140.4(n) & 170.2(c)4D 170.2(c)4D
Schema Version: rev 20220101 Report Generated: 2023-05-04 12-49-59  **Cof CALIFORNIA ENERGY COMMISSION**  **TRICCAT Systems**  **CALIFORNIA ENERGY COMMISSION**  **TRICCAT OF COMPLIANCE**    Report Pages: NRCC-MICHE**   Report Pages: NRCC-MICHE**   Parkives IS - Kindergarten   Report Pages: NRCC-MICHE**   Parkives IS - Kindergarten   Report Pages: NRCC-MICHE**   Parkives IS - Kindergarten   Report Pages: NRCC-MICHE**   Date Prepared: 2023-05-04123-09-55-045.    COMENTATION AUTHOR'S DECLARATION STATEMENT   Report Pages: National Author Visual Parkives IS - Michael Pages IS - Mic					0.8	SEER 14	14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<= 25,000 ft <sup>2</sup>		Zone	EMCS	
Echanical Systems  Intificate of Compliance  Jee Name: Parkinew Es-Kindergarten  Report Page: (Page of 19)  Jeet Address: Date Prepared: 2023-05-04715:49:55-04:00  INCLIMENTATION AUTHOR'S DECLARATION STATEMENT  Strifty that this Certificate of Compliance documentation is accurate and complete.  Jeet Agent Page: (EA)  Jeep Spots	Building Energy	Efficiency Standards - 2022 Nonresidential Comp						CA Building Energy Efficiency Standards	s - 2022 Nonresidential Complia		# (CONTROL OF THE PROPERTY OF		Compliance ID: 105679-0523-0004 Report Generated: 2023-05-04 12:49:59
Park view E5-Kindergarten	echanical S	•				CALIFORNIA ENER							
were trify that this Certificate of Compliance documentation is accurate and complete.  were trified by PZESHKI  Documentation Author Name:  THEW PZESHKI  spany:  signature Date:  Signature Date:  Signature Date:  Signature Date:  State (7)	ject Name: P			The State of the S		2023-05-	(Page 9 of 9)						
umentation Author Name: TTHEW PEZESHKI  papary: eshki Engineering Inc.  Signature Date: eshki Engineering Inc.  CEA/ HERS Certification Identification (if applicable): //state/Dip: //stat													
ress:  CEA/ HERS Certification Identification (if applicable):  //state/Zip:  Phone:  SPONSIBLE PERSON'S DECLARATION STATEMENT  tiffy the following under penalty of perjury, under the laws of the State of California:  In information provided on this Certificate of Compliance is true and correct.  In energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  The building design features or system design features identified on this Certificate of Compliance documents, worksheets, calculations,	umentation Author	Name:	Doc		nature:								
tify the following under penalty of perjury, under the laws of the State of California:  1. The information provided on this Certificate of Compliance is true and correct.  2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)  3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  4. The building design features or system design features identified on this Certificate of Compliance documents, worksheets, calculations,	eshki Engineeri ress:	ng Inc.	CEA	A/ HERS Certification Ide	entification (if applicable):								
<ol> <li>The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.</li> <li>The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations,</li> </ol>	SPONSIBLE PE tify the following u 1. The inform	nder penalty of perjury, under the laws of the State of ation provided on this Certificate of Compliance is true	California: e and correct.		identified on the con-	cate of Compliance forces that							
pans an appetunction of the modern and approximate of the modern agency of approximate of the policy of a policy of the pullding permit (s) issued for the building, and made available to the enforcement agency for all applicable	The energy of Title 24,     The buildin plans and s	features and performance specifications, materials, or Part 1 and Part 6 of the California Code of Regulations g design features or system design features identified pecifications submitted to the enforcement agency fo	omponents, and manufactured devices for i. on this Certificate of Compliance are consist r approval with this building permit applica	r the building design or s sistent with the informat ation.	system design identified o	on this Certificate of Compliance conform plicable compliance documents, workshe	to the requirements						

STATE OF CALIFORNIA Mechanical Systems					CALIFORNIA E	ENERGY COMMISSION	STATE OF CALIFORNIA Mechanical									CALIFORNIA E	ENERGY C	OMMISSION
CERTIFICATE OF COMPLIANCE						NRCC-MCH-E	CERTIFICATE OF C	OMPLIANCE				_						NRCC-MCH-E
Project Name: Parkview ES	Report Page	1:				(Page 2 of 7)	Project Name:	Parkview ES				Report Pa	ge:					(Page 3 of 7)
	Date Prepar	ed:			202	3-05-04T14:32:00-04:00						Date Prep	ared:			202	3-05-04T1	4:32:00-04:00
							E. HVAC SYSTEM	M SUMMARY (DRY & WET	SYSTEMS)									
C. COMPLIANCE RESULTS							The state of the s	pment Sizing (includes air co		densers, heat	pumps, VRF,	furnaces and	unit heaters	s and DOAS sys	stems)			
Table C will indicate if the project data input into the compliance document i NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., a				editable b	y the user, If this	table says "DOES	01	02		03		04	05	06	07 08	09	10	11
01   02   03   04	05	06	07	1	08	09									t Sizing per Mechai		kBtu/h)	
System 5	- 03		- 07	-	- 00	03								1	40.4(a&b), 170.2(c			
Summary System System		Terminal Box	Distributio	n				Equipment Category per		~		Smallest Size	He	eating Output <sup>2</sup>	.3 Coolin	ng Output <sup>2,3</sup>	Load Cal	culations <sup>3,4</sup>
110.1, AND Pumps AND Economizers AND Controls 140.4(k), AND 140.4(k), AND 140.4(k), AND 110.2, 120.2,	AND Ventilation AND		AND 120.3,	AND			Name or Item Tag	Tables 110.2, 140.4(a)2 and	Equipment Ty	pe per Tables Title 20	110.2 and	Available <sup>1</sup> 140.4(a) and			Supp.		Total	Total
110.2, 140.4, 170.2(c)4l 140.4(e), 140.4(f),	120.1, 160.2	140.4(d), 170.2(c)4B	140.4(I), 160.2, 160	-	110.2(e)2	Compliance Results		170.2(c)3aii				170.2(c)1	Per Design		Heating Sensibl	Rated	Heating	Sensible Cooling
170.2(c) 170.2(c) 170.2(c)		170.2(0)46	160.2, 160	.3									(kBtu/h)		Output   (kBt)/h		Load	Load
(See Table F) (See Table G) (See Table H) (See Table I)	(See Table J)	(See Table K)	(See Table	L)	(See Table M)	1									(kBtu/h)	*	(kBtu/h)	(kBtu/h)
Yes AND AND AND Yes	AND AND		AND	AND		COMPLIES	FU-1,2,3/Cu- 1,2,3	Furnace + AC	12 12 15	l, single pkg + furnace, gas-fi	33.033	Yes	80	80	0 42.7	57.1	65.8	39.5
Mandatory Measures Complian	ce (See Table Q for Details)			COMP	LIES			uipment shall be the smalles	V			sired equipme	ent line, nece	essary to meet	the design heating	and cooling log	ds of the	buildina per
								0.2(c)1. Healthcore facilities a		dramoure open	ons of the de	sired equipme	inc inic, need	.ssary to meet	are design neutring	and tooming too	os of the	ounding per
D. EXCEPTIONAL CONDITIONS							<sup>2</sup> It is common pro	actice to show rated output o	apacity on the	quipment sch	dule. Sensib	le cooling out	out comes fro	om specificatio	n sheet tables.			
This table is auto-filled with uneditable comments because of selections made	le or data entered in tables	throughout the	form					heating only, leave cooling o						out and load blo	ank.			
		an oughout the	,,,,,,,					ng Jurisdiction may ask for lo										
								pment Efficiency (other than	n Package Termi								Pumps)	
E. ADDITIONAL REMARKS							01	02		03	04		05	06	07	08		09
This table includes remarks made by the permit applicant to the Authority H	aving Jurisdiction.											Heating Mod	e			Cooling Mod	de	
							Name of Bridge	Sine Cotone		40.000		102020	imum			Minimum		
F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)							Name or Item Tag	Size Categor (Btu/h)	У	Rating Condition	Efficiency	2007	ciency ired per D	Design Efficienc	y Efficiency Unit	Required pe	1000	gn Efficiency
Space Conditioning System Information							1.08	(533717)		(°F)	Linciency		110.2/	resign Emclenc	y Efficiency Offic	Tables 110.2		gir ciriciency
01 02	)3	04		05		06				1 350		0.00000000	le 20			Title 20	.	
System Name Quantity System	Serving Sy:	stem Status	Spa	ce Type	Utilizi	ng Recovered Heat	FU-1,2,3/Cu-	continue and a 2201	Dt. I beatles		AFUE		0.8	0.8	EER	11	$\neg$	14
FU-1,2,3/Cu-1,2,3 3 Mult	i-zone						1,2,3	<65kBtuh cooling/ <225k	totuli neating		AFUE		V.0	0.0	SEER	14		16
								s not apply to this project.										
Registration Number:	Generated Date/Time	e:		C	Occumentation Soft	ware: Energy Code Ace	Registration Num	ber:			Gen	erated Date/Tir	ne:		Do	cumentation Soft	ware: Ene	gy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022 Schema Version: rev					ID: 105559-0523-0005 d: 2023-05-04 11:32:04	CA Building Energ	gy Efficiency Standards - 2022 No	onresidential Com	pliance		ort Version: 202 ema Version: re				Compliance Report Generated		9-0523-0005 -04 11:32:04
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CERTIFICATE OF COMPLIANCE	In					NRCC-MCH-E	CERTIFICATE OF CO						240					NRCC-MCH-E
Project Name: Parkview ES	Report Page Date Prepar				202	(Page 6 of 7) 3-05-04T14:32:00-04:00	Project Name: Project Address:	Parkview ES				Report Pa				202	2 OF 04T1	(Page 7 of 7) 4:32:00-04:00
	Date Prepar	eu.			202	3-03-041 24.32.00-04.00	Project Address.					Date Frep	erea.			202	3-03-0412	4.32.00-04.00
Q. MANDATORY MEASURES DOCUMENTATION LOCATION	-						DOCUMENTAT	ION AUTHOR'S DECLARAT	ION STATEME	NT								
This table is used to indicate where mandatory measures are documented in	the plan set or construction	n documentation	٦.					is Certificate of Complian			te and com	plete.						
01					02		Documentation Auth					Documenta	tion Author Sign	nature:				
Compliance with Mandatory Measures documented through MCH	No		Plar	sheet or	construction doc	ument location	MATTHEW PEZE	SHKI				Sizzation D		- VOLLOCKI				
Mandatory Measures Note Block 03					04		Company: Pezeshki Enginee	ering Inc.				Signature D	ete:					
Mandatory Measure	10		Plan	sheet or	construction doc	ument location	Address:						Certification Ide	entification (if appl	icable):			
Heating Equipment Efficiency per 110.1			- Tall	silect of	M0-1.1	ament location	City/State/Zip:					Phone:						
Cooling Equipment Efficiency per 110.1			_		M0-1.1			PERSON'S DECLARATION S		f California								
Furnace Standby Loss Control per 110.2(d)					0.75			g under penalty of perjury, under the rmation provided on this Certificate										
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2	(b)				NA NA			ible under Division 3 of the Business										
							of Title 2 4. The built plans an 5. I will ens inspection	rgy features and performance specif 4, Part 1 and Part 6 of the California ding design features or system design d specifications submitted to the en- sure that a completed signed copy of ons. I understand that a completed s	Code of Regulation on features identified forcement agency for f this Certificate of C	s. on this Certificat or approval with ti ompliance shall b	of Compliance is building pern made available	are consistent wi nit application. e with the buildin d to be included t	th the informati g permit(s) issue with the docum	tion provided on of sed for the building sentation the build	ther applicable compliants, and made available to	nce documents, wo	rksheets, ca	lculations,
							Responsible Designe Company:	reame:				Date Signed	Designer Signa	ature:				
							Address:					License:	***					
							City/State/Zip:					Phone:						

Project Name: Parkview ES - Kindergarten  C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.  O1	
C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.  O1	this table says "DOES
NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.           01         02         03         04         05         06         07         08           System Summary         Fans/ Fans/ Summary         System Fans/ System Summary         Terminal Box Distribution         Distribution	
System Summary Rumos Fonominers Controls Terminal Box Distribution	
Summary Rumos Feonomiser Controls Terminal Box Distribution	09
110.1, 110.2, 140.4(k), 170.2(c)   AND   140.4(k), 170.2(c)   140.4(e), 170.2(c)   170.2(c)   140.4(e), 170.2(c)   170.2(c)   140.4(e), 170.2(c)   140.4(e), 170.2(c)   140.4(e), 170.2(c)   140.4(e), 170.2(c)   140.4(f),	
(See Table F) (See Table G) (See Table H) (See Table I) (See Table J) (See Table K) (See Table L) (See Table L)	M)
Yes         AND         AND         AND         Yes         AND         AND         AND         AND	COMPLIES
Mandatory Measures Compliance (See Table Q for Details)  COMPLIES	
D. EXCEPTIONAL CONDITIONS  This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	
E. ADDITIONAL REMARKS	

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roject Name: F	Parkview ES -Kindergarten		F	leport Page:				(Page 6 of 9
			C	Date Prepared:			2023-0	5-04T15:49:55-04:00
Dry System Equip	ment Efficiency (other than Package Term 02	inal Air Conditi 03	ioners (PTAC) and	Package Terminal 05	Heat Pumps (PTHF	P), DX-DOAS and E	Oual Fuel Heat Pu 08	mps) 09
01	02	03		ing Mode	06	07	Cooling Mode	09
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
AC-B9	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	EER SEER	11 14	11 14
HP-B1	<65,000		HSPF	8	8	SEER	14	14
G. PUMPS	not apply to this project.		HSPF	8	8	SEEK	14	14
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(Soo	Table G)	(See Table	H)	(See Table I)	(See Table J	) (See Table K	1	(See Table L)	(See Ta	hle M\										(kBtu/h)	(11010/11)	(kB	(kBtu/h
AND		AND See Table	AND		-	AND	AND		ND (See 1	JIE IVI)	COMPLIES	FU-1,2,3/Cu-	Furnace +	AC AC,	, air cooled, single pkg	Orem WOW	Yes	80	80	0	42.7	57.1 6	5.8 39.5
		Mandate	ory Meas	ures Compliance (Se	e Table Q for	Details)	7601	c	OMPLIES			1,2,3	L nuipment shall he th	ne smallest size	central furnace, gas within the available o		esired equipm	ent line ne	ecessary to me	eet the design	n heating or	d cooling loads o	f the building pe
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		by the permit appi	licant to t	he Authority Having	Jurisdiction.												Heating Mod					Cooling Mode	
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		RY & WET SYSTE	EMS)									Tag		(Btu/h)	Condition	Efficiency	(C-0)/A   1000	uired per	Design Efficie	ency Efficie	ency Unit	MOG 130 (804)7	Design Efficience
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01 em Name	_	02 Quantity		03 System Servi	ng	04 System Status	-	05 Space T	/ne	Utilizin	06 g Recovered Heat	FU 1 2 2/C.		- % - 0.11-000 - 00			- 11	itle 20		$\rightarrow$	EED	Title 20	14
,3/Cu-1,2,3	_	3		Multi-zone		System Status		Space 1	, pc	Othizh		FU-1,2,3/Cu- 1,2,3	<65kBtuh cooli	ing/<225kBtuh l	heating	AFUE		8.0	0.8		EER SEER	11 14	14 16
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with Supplem	nental ele	ctric Resistance H	eater Con	trols per 110.2(b)						IA		<ol><li>The ener</li></ol>	rgy features and perform	nance specifications	ns, materials, components, a								
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															nent agency for approval wit Certificate of Compliance sha			ne permit(s) i	ssued for the buil	lding, and made	available to th	e enforcement agenc	for all applicable
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1	02	03	-	04	05	06	-	0/		0	09	AC-B	35	1	Si	ngle zone		Alteratio	n				
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AND P	umps	L. Fconomize	ers	Controls	1					260				- 2			_			-	-		ems.

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CERTIFICATE OF COMPLIANCE	Annual Control of Cont	
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DISTRIBUTION (DUCTWORK an	d PIPING)
This section does not apply to this pro	oject.
M. COOLING TOWERS	
This section does not apply to this pro	oject.
	information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.
	o the building inspector during construction and can be found online at 019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/
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RCI-MCH-01-E - Must be submitted	for all buildings

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anical Scheo c)1 & 170.2	dule (kBtu/h) (c)2		I. SYSTEM CONTROLS	actrata complia	nsa with manda	story controls in 110 3 and 13	0.3 and proc	scelativo controls	in 140 4/f) and (n) 170 2	(c)4D 170 2(c)4)	ar raquiroments in
	(c)2	culations <sup>3,4</sup>				atory controls in 110.2 and 12	0.2 and pres	scriptive controls	in 140.4(f) and (n), 170.2	(c)4D 170.2(c)4L	or requirements in
c)1 & 170.2	(c)2 .3 Load Ca Total	Total	This table is used to demo				20.2 and pres	scriptive controls	in 140.4(f) and (n), 170.2	/c)4D 170.2(c)4L 0	or requirements in

| 160.3(a)2B | 160.3(a)2F | 160.3(a)2B | 160 1-FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats. his section does not apply to this project. K. TERMINAL BOX CONTROLS This section does not apply to this project. L. DISTRIBUTION (DUCTWORK and PIPING) his section does not apply to this project. Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

> Report Version: 2022.0.000 Schema Version: rev 20220101

01 02 03 04 05 06 07 08 09 10 11

Name or Item
Tag

Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii

Equipment Type per Tables 110.2 and 170.2(c)3aii

Equipment Type per Tables 110.2 and 170.2(c)1

Equipment Type per Tables 110.2 and 170.2(c)1

Equipment Type per Tables 110.2 and 170.2(c)1

Equipment Type per Tables 110.2 and 140.4(a)b, 170.2(c)1

Equipment Sizing per Mechanical Schedule (kBtu/h)

140.4(a&b), 170.2(c)1 & 170.2(c)2

Heating Output<sup>2,3</sup>

Cooling Output<sup>2,3</sup>

Equipment Sizing per Mechanical Schedule (kBtu/h)

140.4(a&b), 170.2(c)1 & 170.2(c)2

For Design (kBtu/h)

AC, air cooled, single pkg + warm-air

AC, air cooled, single pkg + warm-air

AC, air cooled, single pkg + warm-air

central furnace, gas-fired AC, air cooled, single pkg + warm-air central furnace, gas-fired

AC, air cooled, single pkg + warm-air

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Project Name: Parkview ES -Kindergarten

AC-B1

AC-B2

AC-B3

AC-B4

AC-B5

AC-B6

AC-B7

AC-B8

AC-B9

HP-B1

Registration Number:

STATE OF CALIFORNIA

Mechanical Systems CERTIFICATE OF COMPLIANCE

urnace Standby Loss Control per 110.2(d)

Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Furnace + AC

Furnace + AC

Compliance ID: 105559-0523-0005 Report Generated: 2023-05-04 11:32:04

CALIFORNIA ENERGY COMMISSION

(Page 4 of 9) 2023-05-04T15:49:55-04:00

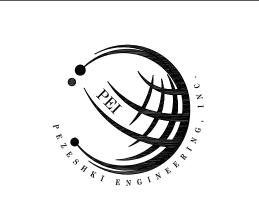
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

APP: 04-122083 INC:

DATE: 10/18/2023

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗌



19900 MacArthur Boulevard | Suite 1000 Irvine I California I 92612 949.250.0880 I FAX 949.250.0882

www.westgroupdesigns.com

1920 E Warner Ave., Suite 3-H Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884-3834 PEI #600.030

**PARKVIEW** ELEMENTARY SCHOOL **VICTOR ELEMENTARY** 13427 CAHUENGA ROAD VICTORVILLE, CA 92395

0	47.9	47.9	49	42
0	22.8	27.8	28	22
		Complianc	e ID: 105679	0-0523-0004
	1	CALIFORNIA	ENERGY CO	OMMISSION
		20,000,200,000		NRCC-MCH-E
				(Page 8 of 9)
		20	23-05-04T15	:49:55-04:00
ged, plea	ise explain wh	ny in Table E	Additional	Remarks.

REGISTRATION/SIGNATURE:

TITLE 24

WD PROJ. # DRAWN BY: CHECKED DATE

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P:\600-Westgroup Designs\600-030\_VESD\_17\_Sites\_HVAC\_Replacement\Drawings\Park View ES\Drawings\Mechanical\M0-4.1.dwg Jul 24, 2023 - 1:42pm iggy

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 105679-0523-0004 Report Generated: 2023-05-04 12:49:59

CERTIFICATE OF COMPLIANCE					NRCC-MCH-
Project Name: Parkview ES -Kir	ndergarten		Report Page:		(Page 3 of 9
			Date Prepared:		2023-05-04T15:49:55-04:0
F. HVAC SYSTEM SUMMARY	(DRY & WET SYSTEMS)				
Space Conditioning System Info	•				
	acondiscussions.	1	T		1
01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-B5	1	Single zone	Alteration		
AC-B6	1	Single zone	Alteration		
AC-B7	1	Single zone	Alteration		
AC-B8	1	Single zone	Alteration		
AC-B9	1	Single zone	Alteration		

	Schema Version: rev 20220101	Report Generated: 2023-05-04 12:49:59
STATE OF CALIFORNIA		
Mechanical Systems		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Parkview ES -Kindergarten	Report Page:	(Page 7 of 9
	Date Prepared:	2023-05-04T15:49:55-04:00
	neaters, non-central electric heaters, fireplaces or decor	ative gas appliances, wood stoves are not required to
FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room h	neaters, non-central electric heaters, fireplaces or decor	ative gas appliances, wood stoves are not required to
<sup>1</sup> FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room h have setback thermostats.	neaters, non-central electric heaters, fireplaces or decor	ative gas appliances, wood stoves are not required to
<sup>1</sup> FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room have setback thermostats.  J. VENTILATION AND INDOOR AIR QUALITY	neaters, non-central electric heaters, fireplaces or decor	ative gas appliances, wood stoves are not required to
FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room have setback thermostats.  J. VENTILATION AND INDOOR AIR QUALITY	neaters, non-central electric heaters, fireplaces or decor	ative gas appliances, wood stoves are not required to
FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room have setback thermostats.  J. VENTILATION AND INDOOR AIR QUALITY  This section does not apply to this project.	neaters, non-central electric heaters, fireplaces or decor	ative gas appliances, wood stoves are not required to
<sup>1</sup> FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room h have setback thermostats.	neaters, non-central electric heaters, fireplaces or decor	ative gas appliances, wood stoves are not required to
FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room have setback thermostats.  J. VENTILATION AND INDOOR AIR QUALITY This section does not apply to this project.  K. TERMINAL BOX CONTROLS	neaters, non-central electric heaters, fireplaces or decor	ative gas appliances, wood stoves are not required to
FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room have setback thermostats.  J. VENTILATION AND INDOOR AIR QUALITY This section does not apply to this project.  K. TERMINAL BOX CONTROLS	neaters, non-central electric heaters, fireplaces or decor	ative gas appliances, wood stoves are not required to

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Compliance ID: 105679-0523-0004 Schema Version: rev 20220101 Report Generated: 2023-05-04 12:49:59

central furnace, gas-fired AC, air cooled, single pkg + warm-air central furnace, gas-fired C, air cooled, single pkg + warm-air Furnace + AC central furnace, gas-fired C, air cooled, single pkg + warm-air Furnace + AC central furnace, gas-fired C, air cooled, single pkg + warm-air Furnace + AC AC, air cooled, single pkg + warm-air 53.6 53.6 0 47.9 47.9 49 42 Furnace + AC central furnace, gas-fired AC, air cooled, single pkg + warm-air Furnace + AC central furnace, gas-fired Unitary Heat Pumps (no Air-cooled, pkg (3 phase) Yes elec. resistance) Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

Equipment Sizing per Mechanical Schedule (kBtu/h)

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be chang These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCA/ Systems/Spaces To Be Field Form/Title Verified T-B1,2,3,4,5,67,8,9 NRCA-MCH-18-A Energy Management Control Systems P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION There are no NRCV forms required for this project. Q. MANDATORY MEASURES DOCUMENTATION LOCATION Compliance with Mandatory Measures documented through MCH Plan sheet or construction document location Mandatory Measures Note Block Plan sheet or construction document location eating Equipment Efficiency per 110.1 ooling Equipment Efficiency per 110.1

Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Generated: 2023-05-04 12:49:59 Schema Version: rev 20220101

01 Project Location (city)     Victorville     04 Total Conditioned Floor Area     5760       02 Climate Zone     14     05 Total Unconditioned Floor Area     990	C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.  O1
03 Occupancy Types Within Project:  • School or Classroom   B. PROJECT SCOPE	System Summary 110.1, 110.2, 110.2, 140.4(k), 170.2(c) 4
This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.	(See Table F) (See Table G) (See Table H) (See Table I) (See Table J) (See Table K) (See Table L) (See Table M)  Yes AND AND AND Yes AND AND AND AND COM
Air System(s) Wet System Components Dry System Components  ☑ Heating Air System ☐ Water Economizer ☐ Air Economizer	D. EXCEPTIONAL CONDITIONS  Mandatory Measures Compliance (See Table Q for Details)  COMPLIES
☑ Cooling Air System       ☐ Pumps       ☐ Electric Resistance Heat         Mechanical Controls       ☐ System Piping       ☐ Fan Systems         ☑ Mechanical Controls (existing to remain, altered       ☐ Cooling Towers       ☐ Ductwork (existing to remain, altered or new)	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
or new)  Chillers  Ductwork (existing to remain, actered or new)  Chillers  Dictwork (existing to remain, actered or new)  Zonal Systems/ Terminal Boxes	E. ADDITIONAL REMARKS  This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.
	F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)  Space Conditioning System Information
	01 02 03 04 05 06  System Name Quantity System Serving System Status Space Type Utilizing Recove  AC-C1 1 Single zone Alteration
	AC-C1         1         Single zone         Alteration
egistration Number: Documentation Software: Energy Code Ace	AC-C4 1 Single zone Alteration   Registration Number: Generated Date/Time: Documentation Software: Energy  Compared to the compared Date of the compared Dat
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000  Schema Version: rev 20220101  Compliance ID: 105701-0523-0004  Report Generated: 2023-05-04 12:54:05	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 105701 Schema Version: rev 20220101 Report Generated: 2023-05-0
ATE OF CALIFORNIA  Iechanical Systems  CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA  Mechanical Systems  CALIFORNIA ENERGY CO
RRTIFICATE OF COMPLIANCE  roject Name: Parkview Bldg-C Report Page: (Page 5 of 8)  Date Prepared: 2023-05-04T15:54:01-04:00	CERTIFICATE OF COMPLIANCE  Project Name: Parkview Bldg-C Report Page:  Date Prepared: 2023-05-04T15
his section does not apply to this project.	M. COOLING TOWERS  This section does not apply to this project.
SYSTEM CONTROLS  his table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 41.0(b)2E 180.2(b)2 for altered space conditioning systems.	N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION  Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional in the company of the changed of
01 02 03 04 05 06 07 08 09  Conditioned Thermostats Shut-Off Isolation Supply Air	These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/
System Name  System Zoning Served (ft²)  System Name  System Zoning Served (ft²)  System Zoning Served (ft²)  System Name  System Zoning Served (ft²)  System Zoning Served (ft²)  System Zoning Served (ft²)  System Zone Controls (Controls 120.2(e) & 120.2(e) & 120.2(g) & 160.3(a)2F  System Name Zone Controls (Controls 120.2(e) & 120.2(g) & 160.3(a)2B  System Name Zone Controls (Controls 120.2(e) & 120.2(g) & 160.3(a)2B  System Name Zone Controls (Controls 120.2(e) & 120.2(g) & 160.3(a)2B  System Name Zone (Controls 120.2(e) & 120.2(e) & 120.2(g) & 160.3(a)2B  System Name Zone (Controls 120.2(e) & 12	NRCI-MCH-01-E - Must be submitted for all buildings
T-C1,2,3,4,5,6 Single zone <= 25,000 ft <sup>2</sup> EMCS EMCS NA: Single Zone EMCS NA: No operable windows	O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE  Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional in the control of the change of the chang
OOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to ve setback thermostats.	These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/    Systems/Spaces 7
VENTILATION AND INDOOR AIR QUALITY is section does not apply to this project.	NRCA-MCH-18-A Energy Management Control Systems  T-C1,2,3,4,5,6
TERMINAL BOX CONTROLS is section does not apply to this project.	P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION  There are no NRCV forms required for this project.
DISTRIBUTION (DUCTWORK and PIPING)	
his section does not apply to this project.	
Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace  CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 105701-0523-0004 Schema Version: rev 20220101 Report Generated: 2023-05-04 12:54:05	Registration Number: Generated Date/Time: Documentation Software: Energy  CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 105701 Schema Version: rev 20220101 Report Generated: 2023-05-0
ATE OF CALIFORNIA	STATE OF CALIFORNIA
ERTIFICATE OF COMPLIANCE  his document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive	CERTIFICATE OF COMPLIANCE  Project Name: Parkview Bldg-D Report Page:
roject Name: Parkview Bldg-D Report Page: (Page 1 of 8) roject Address: Date Prepared: 2023-05-04T15:56:20-04:00	Date Prepared: 2023-05-04T15
GENERAL INFORMATION	C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says
01 Project Location (city)     Victorville     04 Total Conditioned Floor Area     5760       02 Climate Zone     14     05 Total Unconditioned Floor Area     0       03 Occupancy Types Within Project:     06 # of Stories (Habitable Above Grade)     1	NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.  O1
School or Classroom	Summary 110.1, 110.2, 110.2, 110.2, 110.2, 120.2, 140.4(e), 170.2(c)4  140.4(e), 140.4(e), 140.4(e), 140.4(f), 140.4(f), 140.4(e), 140.4(f), 140.4
PROJECT SCOPE  his table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 40.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.	170.2(c) 170.2(c) 170.2(c) 170.2(c) 170.2(c) 160.2, 160.3 (See Table F) (See Table G) (See Table H) (See Table I) (See Table K) (See Table L) (See Table M)
01 02 03 Air System(s) Wet System Components Dry System Components	Yes AND AND Yes AND AND AND AND COM  Mandatory Measures Compliance (See Table Q for Details)  COMPLIES
☑ Heating Air System       ☐ Water Economizer       ☐ Air Economizer         ☑ Cooling Air System       ☐ Pumps       ☐ Electric Resistance Heat         Mechanical Controls       ☐ System Piping       ☐ Fan Systems	D. EXCEPTIONAL CONDITIONS  This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
Mechanical Controls (existing to remain, altered or new)  Cooling Towers  Ductwork (existing to remain, altered or new)  Chillers  Ventilation	E. ADDITIONAL REMARKS
Boilers	This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.  F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
	Space Conditioning System Information           01         02         03         04         05         06           6 the Name         0 contribute
	System Name Quantity System Serving System Status Space Type Utilizing Recove  AC-D1 1 Single zone Alteration
	AC-D2 1 Single zone Alteration
	AC-D2         1         Single zone         Alteration           AC-D3         1         Single zone         Alteration           AC-D4         1         Single zone         Alteration
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 105717-0523-0003	AC-D3 1 Single zone Alteration
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000  Schema Version: rev 20220101  Compliance ID: 105717-0523-0003  Report Generated: 2023-05-04 12:56:23	AC-D3 1 Single zone Alteration
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  TE OF CALIFORNIA  echanical Systems  CALIFORNIA ENERGY COMMISSION  RETIFICATE OF COMPLIANCE  REPORT Version: 2022.0.000 Schema Version: rev 20220101  Compliance ID: 105717-0523-0003 Report Generated: 2023-05-04 12:56:23  CALIFORNIA ENERGY COMMISSION  RETIFICATE OF COMPLIANCE	AC-D3 1 Single zone Alteration
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  Report Generated: 2023-05-04 12:56:23  RE OF CALIFORNIA  CALIFORNIA ENERGY COMMISSION  RETIFICATE OF COMPLIANCE  REPORT Version: 2022.0.000 Compliance ID: 105717-0523-0003 Report Generated: 2023-05-04 12:56:23  CALIFORNIA ENERGY COMMISSION  REC-MCH-E	AC-D3 1 Single zone Alteration
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  Report Generated: 2023-05-04 12:56:23  REFORMULA ENERGY COMMISSION RETIFICATE OF COMPLIANCE  REPORT Page:  Rep	AC-D3 1 Single zone Alteration
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  CALIFORNIA Report Generated: 2023-05-04 12:56:23  CALIFORNIA ENERGY COMMISSION RETIFICATE OF COMPLIANCE OJect Name: Parkview Bidg-D  Report Page: (Page 5 of 8) Date Prepared: 2023-05-04T15:56:20-04:00  FAN SYSTEMS & AIR ECONOMIZERS  Its section does not apply to this project.	AC-D3 1 Single zone Alteration
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  ATE OF CALIFORNIA  Mechanical Systems  CALIFORNIA ENERGY COMMISSION  ERTIFICATE OF COMPLIANCE  Toject Name: Parkview Bidg-D  Report Page: (Page 5 of 8) Date Prepared: 2023-05-04T15:56:20-04:00  I. FAN SYSTEMS & AIR ECONOMIZERS  his section does not apply to this project.  SYSTEM CONTROLS  his table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in	AC-D3 1 Single zone Alteration    Registration Number:
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  Report Generated: 2023-05-04 12:56:23  REPORT Generated: 2023-05-04 12:56:23  REPORT Fage:  REPORT Page:  REPO	AC-D3 1 Single zone Alteration    AC-D4 1 Single zone Alteration    Registration Number:
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Schema Version: 2022.0.000 Schema Version: rev 20220101  Report Generated: 2023-05-04 12:56:23  Report Generated: 2023-05-04 12:56:23  Report Generated: 2023-05-04 12:56:23  Report Generated: 2023-05-04 12:56:23  Report Page:  (Page 5 of 8) Date Prepared:  Parkview Bidg-D  Date Prepared:  Parkview Bidg-D  Date Prepared:  Report Page:  (Page 5 of 8) Date Prepared:  Parkview Bidg-D  Date Prepared:  Parkview Bidg-D  Date Prepared:  Parkview Bidg-D  Date Prepared:  Report Version: rev 20220101  Report Generated: 2023-05-04 12:56:23  Report Page:  (Page 5 of 8) Date Prepared:  Date Prepared:  Parkview Bidg-D  Date Prepared:  D	AC-D3 1 Single zone Alteration
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  Report Generated: 2023-05-04 12:56:23  REPORT GENERAL SYSTEMS  CALIFORNIA ENERGY COMMISSION RETIFICATE OF COMPLIANCE  Opect Name: Parkview Bidg-D  Report Page:  Repo	AC-D3 1 Single zone Alteration
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  Report Generated: 2023-05-04 12:56:23  NTC OF CALIFORNIA  Rechanical Systems  CALIFORNIA ENERGY COMMISSION  RIFICATE OF COMPLIANCE  Report Page:  Report	AC-D3 1 Single zone Alteration
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022 0.000 Schema Version: rev 20220101  Report Generated: 2023-05-04 12-56-23  REDOT Generated	AC-D3 1 Single zone Alteration    AC-D4 1 Single zone Alteration    Begistration Number: Generated Date/Time: Documentation Software: Ener CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance    Report Version: 2022.0.000
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  Report Generated: 2023-05-04 12:56:23  ARE OF CALIFORNIA  RECHARICA  Report Page:	AC-D3 1 Single zone Alteration
As Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  CALFORNIA ENERGY COMMISSION Report Generated: 2023-05-04 12-56-23  ARE OF CALFORNIA ENERGY COMMISSION REPORT Page:  Report Page: Report Page: Report Pa	AC-D3 1 Single zone Alteration    AC-D4 1 Single zone Alteration    Registration Number: Documentation Software: Energ    CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance   Report Version: 2022.0.000
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  Report Generated: 2023-05-04 12:56:23  ACCAMPIANCE  CALIFORNIA ENERGY COMMISSION  RETRIECATE OF COMPLIANCE  NRCC-MCH-E  Report Page:  (Page 5 of 8)  Date Prepared:  Date Prepared:  Date Prepared:  Date Prepared:  NRCC-MCH-E  Report Page:  (Page 5 of 8)  Date Prepared:  Date Prepared:  NRCC-MCH-E  System CONTROLS  his section does not apply to this project.  SYSTEM CONTROLS  his table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 41.0(b)2E 180.2(b)2 for altered space conditioning systems.  O1	AC-D3 1 Single zone Alteration    AC-D4 1 Single zone Alteration    Registration Number: Documentation Software: Energ    CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance   Report Version: 2022.0.000
As Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  CALFORNIA ENERGY COMMISSION Report Generated: 2023-05-04 12-56-23  ARE OF CALFORNIA ENERGY COMMISSION REPORT Page:  Report Page: Report Page: Report Pa	AC-D3 1 Single zone Alteration    AC-D4 1 Single zone Alteration    Registration Number: Documentation Software: Energ    CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance   Report Version: 2022.0.000
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  Report Generated: 2023-05-04 12-56-23  ART OF CALIFORNIA  RECHORIA  RECHORIA  RECHORIA  RECHORIA  REPORT Page:  Report Page:	AC D3 1 Single zone Aberation

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive

Report Page: Date Prepared:

CALIFORNIA ENERGY COMMISSION

2023-05-04T15:54:01-04:00

NRCC-MCH-E

STATE OF CALIFORNIA

Project Address:

Mechanical Systems

Project Name: Parkview Bldg-C

path outlined in 140.4, or 141.0(b)2 for alterations.

CERTIFICATE OF COMPLIANCE

STATE OF CALIFO		stems												CALIFO	RNIA FI	NERGY COMM
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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA

**Mechanical Systems** 

Project Name: Parkview Bldg-C

CERTIFICATE OF COMPLIANCE

		AC-D3	Furnace + AC	central furnace, gas-fire	Co.	Yes	53.6	53.6	0	47.9
		AC-D4	Furnace + AC	AC, air cooled, single pkg + w central furnace, gas-fire	arm-air	Yes	53.6	53.6	0	47.9
	06 Utilizing Recovered Heat	AC-D5	Furnace + AC	AC, air cooled, single pkg + wa central furnace, gas-fire		Yes	53.6	53.6	0	47.9
		AC-D6	Furnace + AC	AC, air cooled, single pkg + wa central furnace, gas-fire		Yes	53.6	53.6	0	47.9
		<sup>1</sup> FOOTNOTES: Faui	oment shall be the small	est size, within the available option		ed eauinmen	t line, neces	sarv to mee	t the desig	n heatina an
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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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AC-C	:5	1	Single zone Single zone		Alteration Alteration		Space	Стурс	Othi		area ricat	<sup>4</sup> Authority Having  Dry System Equip	Jurisdiction may ask for load calculations ment Efficiency (other than Package Term	inal Air Condi	liance per 140.4(b) tioners (PTAC) and	and 170.2(c). Package Terminal	l Heat Pumps (PTI	HP), DX-DOAS and		
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or Item Tag	Equipment Catego Tables 110.2, 140.4( 170.2(c)3aii		t Type per Tables 110.2 and Title 20	Available <sup>1</sup> 140.4(a) and 170.2(c)1	Per Design	Rated	Supp. Heating	Sensible Per Design	Rated	Total Heating	Total Sensible Cooling	AC-C1	<65kBtuh cooling/ <225kBtuh heating	Viiv	AFUE	Title 20	0.8	EER	Title 20	11
					(kBtu/h)	(kBtu/h)	Output (kBtu/h)	(kBtu/h)	(kBtu/h)	Load (kBtu/h)	Load (kBtu/h)	AC-C2	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	SEER EER SEER	14 11 14	14 11 14
AC-C1	Furnace + AC	cen	oled, single pkg + warm-air tral furnace, gas-fired oled, single pkg + warm-air	Yes	53.6	53.6	0	47.9	47.9	49	42	AC-C3	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	EER SEER	11 14	11 14
AC-C2 AC-C3	Furnace + AC	cen	tral furnace, gas-fired oled, single pkg + warm-air	Yes	53.6	53.6	0	47.9 47.9	47.9 47.9	49	42	AC-C4	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	EER SEER	11 14	11 14
AC-C4	Furnace + AC	AC, air co	tral furnace, gas-fired oled, single pkg + warm-air tral furnace, gas-fired	Yes	53.6	53.6	0	47.9	47.9	49	42	AC-C5	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	EER SEER EER	11 14 11	11 14 11
AC-C5	Furnace + AC	AC, air co	oled, single pkg + warm-air tral furnace, gas-fired	Yes	53.6	53.6	0	47.9	47.9	49	42	AC-C6	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	SEER	14	14
AC-C6	Furnace + AC	cen	oled, single pkg + warm-air tral furnace, gas-fired	Yes	53.6	53.6	0	47.9	47.9	49	42	G. PUMPS This section does	nct apply to this project.							
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or California  Chanical  FICATE OF CC  Ct Name:  AC SYSTEM  Condition  O1  System N  AC-D  AC-D  Cystem Equi  O1  AC-D1	Systems  DMPLIANCE Parkview Bldg-D  M SUMMARY [DRY ing System Information of the company of the	Quantity  1 1 3 air conditioners,  AC, air cocen  AC, air cocen  AC, air cocen	O3 System Serving Single zone Single zone Condensers, heat pumps, VR O3  at Type per Tables 110.2 and Title 20  coled, single pkg + warm-air tral furnace, gas-fired coled, single pkg + warm-air tral furnace, gas-fired	Report Page Date Prepa  Sy  F, furnaces and to 04  Smallest Size Available 1 140.4(a) and 170.2(c)1	e: red:  04 stem Status Alteration Alteration unit heaters  05  He Per Design (kBtu/h)	06 Equipme ating Outpu Rated (kBtu/h)	systems) 07 ent Sizing po 140.4(a&b t <sup>2,3</sup> Supp. Heating Output	08 er Mechanic ), 170.2(c)1 Cooling Sensible Per Design (kBtu/h)	Compliance port Generate  CALIFORNIA  20  Utili  09  cal Schedule & 170.2(c)2  Output <sup>2,3</sup> Rated (kBtu/h)	DE LOAD CALC  LOAD CAL	1-0523-0004 -04 12:54:05  OMMISSION NRCC-MCH-E (Page 3 of 8) 5:56:20-04:00  ered Heat  11  Total Sensible Cooling Load (kBtu/h)	STATE OF CALIFORNIA  Mechanical :  CERTIFICATE OF CO  Project Name:  F. HVAC SYSTEM  Dry System Equip  01  3 If equipment is h 4 Authority Having  Dry System Equip  01  Name or Item  Tag  AC-D1  AC-D2	Systems  MPLIANCE Parkview Bldg-D  I SUMMARY (DRY & WET SYSTEMS) ment Sizing (includes air conditioners, cor 02 leating only, leave cooling output and load g Jurisdiction may ask for load calculations of ment Efficiency (other than Package Term 02  Size Category (Btu/h)  <65kBtuh cooling/ <225kBtuh heating <65kBtuh cooling/ <225kBtuh heating	odensers, heat 03 blank. If equip used for complianal Air Condition  Rating Condition	Report Ve Schema V Sc	Report Page: Date Prepared:  aces and unit heat 04 05 ly, leave heating of 0 and 170.2(c).  Package Terminal 05 ting Mode  Minimum Efficiency Required per Tables 110.2 / Title 20 0.8 0.8	ters and DOAS sys  06 06  Utput and load bla  I Heat Pumps (PTH 06  Design Efficiency 0.8  0.8	stems) 07 08 ank.  HP), DX-DOAS and 07  y Efficiency Unit EER SEER EER SEER	Compliance ID Report Generated: 2  CALIFORNIA ENI  2023-0  1 Dual Fuel Heat Pu  08  Cooling Mode  Minimum Efficiency Required per Tables 110.2 / Title 20  11 14 11 14	ERGY COMMISS  NRCC-M (Page 4 5-04T15:56:20-0  Design Efficie  11 14 11 14
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OF CALIFORNIA Chanical IFICATE OF CC Ct Name:  /AC SYSTEM e Condition  O1 System M  AC-D  AC-D  System Equi O1  AC-D1  AC-D2  AC-D3  AC-D4  AC-D5  AC-D6  TNOTES: Equi (a) and 170 common pro stration Num building Energy  OF CALIFORNIA Chanical IFICATE OF CC	Systems  DMPLIANCE Parkview Bldg-D  M SUMMARY [DRY ing System Information of the content of the	AC, air concentrate of	O3 System Serving Single zone Single zone Single zone Single zone Condensers, heat pumps, VR O3  Title 20 Soled, single pkg + warm-air tral furnace, gas-fired	Report Page Report Page Date Prepa  Sy F, furnaces and to 04  Smallest Size Available 1 140.4(a) and 170.2(c) 1  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	2.0.000 20220101  e: red:  O4 stem Status Alteration Alteration unit heaters  O5  He  Per Design (kBtu/h)  53.6  53.6  53.6  53.6  53.6  2.0.000 20220101	06 Equipme ating Outpu  Rated (kBtu/h)  53.6  53.6  53.6  53.6  53.6  53.6  53.6	Space  systems)  07  ent Sizing por 140.4(a&b et 2-3  Supp. Heating Output (kBtu/h)  0  0  0  0  0  o  o  o  o  o  o  o  o	Re  OS  e Type  O8  er Mechanic ), 170.2(c)1  Cooling  Sensible Per Design (kBtu/h)  47.9  47.9  47.9  47.9  47.9  A7.9  A7.9  Re  Documents  Re	CALIFORNIA  20  Utili  09 al Schedule & 170.2(c)2  Output <sup>2,3</sup> Rated (kBtu/h)  47.9  47.9  47.9  47.9  47.9  cooling locations of the cooling location of the cooling locatio	06 izing Recove  10 izing Recove  10 izing Recove  10 izing Recove  49 49 49 49 49 49 49 49 49 49 49 49 49	1-0523-0004 -04 12:54:05  OMMISSION NRCC-MCH-E (Page 3 of 8) 5:56:20-04:00  ered Heat  11  culations <sup>3,4</sup> Total Sensible Cooling Load (kBtu/h) 42 42 42 42 42 42 42 40  building per  rgy Code Ace 7-0523-0003 -04 12:56:23  OMMISSION NRCC-MCH-E	STATE OF CALIFORNIA  Mechanical S  CERTIFICATE OF CO  Project Name:  F. HVAC SYSTEM  Dry System Equip  01  3 If equipment is h  4 Authority Having  Dry System Equip  01  Name or Item  Tag  AC-D1  AC-D2  AC-D3  AC-D4  AC-D5  AC-D6  G. PUMPS  This section does  Registration Numb  CA Building Energy  STATE OF CALIFORNIA  Mechanical S  CERTIFICATE OF CO	Systems  MPLIANCE Parkview Bldg-D  I SUMMARY (DRY & WET SYSTEMS) Iment Sizing (includes air conditioners, cor 02 I seating only, leave cooling output and load of Jurisdiction may ask for load calculations Iment Efficiency (other than Package Term 02  Size Category (Btu/h)  <65kBtuh cooling/<225kBtuh heating	ndensers, heat 03 blank. If equip used for comp inal Air Condit 03  Rating Condition ( *F)	Report Ve Schema V Sc	Report Page: Date Prepared:  aces and unit heat 04 05 ly, leave heating of 0 and 170.2(c).  Package Terminal 05 ting Mode  Minimum Efficiency Required per Tables 110.2 / Title 20 0.8 0.8 0.8 0.8 0.8 0.8	ters and DOAS sys  06  utput and load bla  I Heat Pumps (PTH  06  Design Efficience  0.8  0.8  0.8  0.8  0.8  0.8	stems)  07 08  ank.  HP), DX-DOAS and  07  y Efficiency Unit  EER SEER EER SEER EER SEER EER SEER EER	CALIFORNIA ENI  CALIFORNIA ENI  2023-0  Description of the second of the	ERGY COMMISS  NRCC-M (Page 4 5-04T15:56:20-0  Design Efficie  11 14 14
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OF CALIFORNIA Chanical IFICATE OF CC Ct Name:  VAC SYSTEM e Condition O1 System M AC-D AC-D System Equi O1  AC-D1 AC-D2 AC-D3 AC-D4 AC-D5 AC-D6 ITNOTES: Equi AC-D6 Stration Num Suilding Energy Chanical IFICATE OF CC ct Name:	Systems  DMPLIANCE Parkview Bldg-D  M SUMMARY [DRY ing System Information of the content of the	AC, air concentration of the c	O3 System Serving Single zone Single zone Single zone Single zone Condensers, heat pumps, VR O3  Int Type per Tables 110.2 and Title 20  Interpretation of the condense of the available options of the condense of the equipment schedule. Sensification of the equipment schedule.	Report Page  Report Page  Date Prepa  Sy  F, furnaces and to 04  Smallest Size Available 1 140.4(a) and 170.2(c) 1  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	2.0.000 20220101  e: red:  04 stem Status Alteration Alteration unit heaters  05  He  Per Design (kBtu/h)  53.6  53.6  53.6  53.6  53.6  53.6  20.000 20220101	06 Equipme ating Outpu  Rated (kBtu/h)  53.6  53.6  53.6  53.6  53.6  53.6  53.6	Space  systems)  07  ent Sizing por 140.4(a&b et 2-3  Supp. Heating Output (kBtu/h)  0  0  0  0  0  o  o  o  o  o  o  o  o	Re  OS  e Type  O8  er Mechanic ), 170.2(c)1  Cooling  Sensible Per Design (kBtu/h)  47.9  47.9  47.9  47.9  47.9  A7.9  A7.9  Re  Documents  Re	CALIFORNIA  20  Utili  09 al Schedule & 170.2(c)2  Output <sup>2,3</sup> Rated (kBtu/h)  47.9  47.9  47.9  47.9  47.9  CALIFORNIA  COMPILIAN  COMPILIAN  COMPILIAN  COMPILIAN  CALIFORNIA	Load Calc (kBtu/h) Load Calc (kBtu/h) Load Calc (kBtu/h) 49 49 49 49 49 49 49 49 49 49 49 49 49	1-0523-0004 -04 12:54:05  OMMISSION NRCC-MCH-E (Page 3 of 8) 5:56:20-04:00  ered Heat  11  culations <sup>3,4</sup> Total Sensible Cooling Load (kBtu/h)  42  42  42  42  42  42  42  42  40  building per  rgy Code Ace 7-0523-0003 -04 12:56:23  OMMISSION NRCC-MCH-E (Page 7 of 8)	STATE OF CALIFORNIA Mechanical S CERTIFICATE OF CO Project Name:  F. HVAC SYSTEM Dry System Equip 01  3 If equipment is h 4 Authority Having Dry System Equip 01  Name or Item Tag  AC-D1  AC-D2  AC-D3  AC-D4  AC-D5  AC-D6  G. PUMPS This section does  Registration Numb CA Building Energy  STATE OF CALIFORNIA Mechanical S CERTIFICATE OF CO Project Name: Project Address:	Systems  MPLIANCE Parkview Bldg-D  I SUMMARY (DRY & WET SYSTEMS) Iment Sizing (includes air conditioners, cor 02 I seating only, leave cooling output and load of Jurisdiction may ask for load calculations Iment Efficiency (other than Package Term 02  Size Category (Btu/h)  <65kBtuh cooling/<225kBtuh heating	odensers, heat 03 blank. If equip used for compliant Air Condition ( *F)	Report Ve Schema V Sc	Report Page: Date Prepared:  aces and unit heat 04 05 ly, leave heating of 0 and 170.2(c).  Package Terminal 05 ting Mode  Minimum Efficiency Required per Tables 110.2 / Title 20 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.	ters and DOAS sys  06  utput and load bla  I Heat Pumps (PTH  06  Design Efficience  0.8  0.8  0.8  0.8  0.8  0.8	stems)  07 08  ank.  HP), DX-DOAS and  07  y Efficiency Unit  EER SEER EER SEER EER SEER EER SEER EER	CALIFORNIA ENI  CALIFORNIA ENI  2023-0  Description of the second of the	ERGY COMMISS  NRCC-M (Page 4 5-04T15:56:20-0  Design Efficie  11 14 14
OF CALIFORNIA Chanical IFICATE OF CO Ret Name:  VAC SYSTEM Re Condition  O1 System N  AC-D  System Equi O1  AC-D1  AC-D2  AC-D3  AC-D4  AC-D5  AC-D6  DTNOTES: Equi 4(a) and 170 common pro istration Num Building Energy OF CALIFORNIA Chanical IFICATE OF CO Ret Name:	Systems  DMPLIANCE Parkview Bldg-D  M SUMMARY [DRY ing System Information of the system of the syste	AC, air conditioners,	O3 System Serving Single zone Single zone Single zone Single zone Condensers, heat pumps, VR O3  Int Type per Tables 110.2 and Title 20  Interpretation of the condense of the available options of the condense of the equipment schedule. Sensification of the equipment schedule.	Report Page Date Prepa  Smallest Size Available¹ 140.4(a) and 170.2(c)1  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	2.0.000 20220101  e: red:  04 stem Status Alteration anit heaters  05  He Per Design (kBtu/h)  53.6  53.6  53.6  53.6  53.6  53.6  2.0.000 20220101	Rated (kBtu/h)  53.6  53.6  53.6  53.6  53.6  ssary to mee	Space  systems)  07  ent Sizing po  140.4(a&b  tt <sup>2,3</sup> Supp.  Heating Output (kBtu/h)  0  0  0  0  0  o  o  o  tthe design  cion sheet to	OS e Type  O8 er Mechanic ), 170.2(c)1 Cooling Sensible Per Design (kBtu/h)  47.9  47.9  47.9  47.9  47.9  A7.9  Reading an ables. Document of the process o	CALIFORNIA  20  Utili  09 al Schedule & 170.2(c)2  Output <sup>2,3</sup> Rated (kBtu/h)  47.9  47.9  47.9  47.9  47.9  47.9  CALIFORNIA  CALIFORNIA  20  02	06 023-05-04T15 06 023-05-04T15 06 023-05-04T15 06 023-05-04T15 06 07 08 08 08 08 08 08 08 08 08 08 08 08 08	1-0523-0004 -04 12:54:05  OMMISSION NRCC-MCH-E (Page 3 of 8) 5:56:20-04:00  ered Heat  11  culations <sup>3,4</sup> Total Sensible Cooling Load (kBtu/h)  42  42  42  42  42  42  42  42  42  642  42	STATE OF CALIFORNIA  Mechanical S CERTIFICATE OF CO Project Name:  F. HVAC SYSTEM Dry System Equip 01  3 If equipment is h 4 Authority Having Dry System Equip 01  Name or Item Tag  AC-D1  AC-D2  AC-D3  AC-D4  AC-D5  AC-D6  G. PUMPS This section does  Registration Numb CA Building Energy  STATE OF CALIFORNIA Mechanical S CERTIFICATE OF CO Project Name: Project Address:	Systems MPLIANCE Parkview Bldg-D  I SUMMARY (DRY & WET SYSTEMS) Iment Sizing (includes air conditioners, cor 02 I summent Sizing (includes air conditioners, cor 02 I summent Efficiency (other than Package Term 02  Size Category (Btu/h)  <65kBtuh cooling/<225kBtuh heating <65kBtuh cooling/<25kBtuh heating <65kBtuh cooling/<225kBtuh heating	ndensers, heat  03  blank. If equip used for complianal Air Condition ( *F)	Report Ve Schema V Sc	Report Page: Date Prepared:  aces and unit heat 04 05 ly, leave heating of and 170.2(c).  Package Terminal 05 ting Mode  Minimum Efficiency Required per Tables 110.2 / Title 20 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.	ters and DOAS sys  0 06  utput and load bla  I Heat Pumps (PTH 06  Design Efficiency 0.8  0.8  0.8  0.8  0.8	stems)  07 08  ank.  HP), DX-DOAS and  07  y Efficiency Unit  EER SEER EER SEER EER SEER EER SEER EER	CALIFORNIA ENI  CALIFORNIA ENI  2023-0  Description of the second of the	ERGY COMMISS  NRCC-M (Page 4 5-04T15:56:20-0  Design Efficie  11 14 14
Building Energy E OF CALIFORNIA E Chanical FIFICATE OF CO Ect Name:  VAC SYSTEM CO CONDITION  AC-D  System Equi  O1  ME OF CALIFORNIA  AC-D2  AC-D3  AC-D4  AC-D5  AC-D6  OTNOTES: Equi  4(a) and 170  Common processistration Num  Building Energy E Chanical FIFICATE OF CO Ect Name:  MANDATOR  table is used	Systems  DMPLIANCE Parkview Bldg-D  M SUMMARY [DRY ing System Information of the system of the syste	AC, air concentration are excepted.  AC, air concentration are concentration are excepted.  AC, air concentration are excepted.  AC, air concentration are excepted.	O3 System Serving Single zone Single zone Single zone Condensers, heat pumps, VR  O3  Int Type per Tables 110.2 and Title 20  Foled, single pkg + warm-air tral furnace, gas-fired Foled, singl	Report Page Date Prepa  Smallest Size Available¹ 140.4(a) and 170.2(c)1  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	2.0.000 20220101  e: red:  04 stem Status Alteration Alteration unit heaters  05  He  Per Design (kBtu/h)  53.6  53.6  53.6  53.6  53.6  53.6  2.0.000 20220101	Rated (kBtu/h)  53.6  53.6  53.6  53.6  53.6  ssary to mee	Space  systems)  07  ent Sizing po  140.4(a&b  tt <sup>2,3</sup> Supp.  Heating Output (kBtu/h)  0  0  0  0  0  o  o  o  tthe design  cion sheet to	Re  OS  e Type  O8  er Mechanic ), 170.2(c)1  Cooling  Sensible Per Design (kBtu/h)  47.9  47.9  47.9  47.9  47.9  A7.9  A7.9  Re  Documents  Re	CALIFORNIA  20  Utili  09  al Schedule & 170.2(c)2  Output <sup>2,3</sup> Rated (kBtu/h)  47.9  47.9  47.9  47.9  47.9  47.9  20  CALIFORNIA  20  CALIFORNIA  20  Oz	06 023-05-04T15 06 023-05-04T15 06 023-05-04T15 06 023-05-04T15 06 07 08 08 08 08 08 08 08 08 08 08 08 08 08	1-0523-0004 -04 12:54:05  OMMISSION NRCC-MCH-E (Page 3 of 8) 5:56:20-04:00  ered Heat  11  culations <sup>3,4</sup> Total Sensible Cooling Load (kBtu/h)  42  42  42  42  42  42  42  42  42  642  42	STATE OF CALIFORNIA  Mechanical S  CERTIFICATE OF CO  Project Name:  F. HVAC SYSTEM  Dry System Equip  01  3 If equipment is h  4 Authority Having  Dry System Equip  01  Name or Item  Tag  AC-D1  AC-D2  AC-D3  AC-D4  AC-D5  AC-D6  G. PUMPS  This section does  Registration Numb  CA Building Energy  STATE OF CALIFORNIA  Mechanical S  CERTIFICATE OF CO  Project Name:  Project Address:	Systems  MPLIANCE Parkview Bldg-D  I SUMMARY (DRY & WET SYSTEMS) Iment Sizing (includes air conditioners, cor  02 leating only, leave cooling output and load in Jurisdiction may ask for load calculations Iment Efficiency (other than Package Term  02  Size Category (Btu/h)  <65kBtuh cooling/ <225kBtuh heating  <65kBtuh cooling/ <225kBtuh heati	ndensers, heat 03 blank. If equip used for complianal Air Condition ( *F)	Report Ve Schema V Sc	Report Page: Date Prepared:  aces and unit heat 04 05 ly, leave heating of 0 and 170.2(c).  Package Terminal 05 ting Mode  Minimum Efficiency Required per Tables 110.2 / Title 20 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.	ters and DOAS sys  0 06  utput and load bla  I Heat Pumps (PTH 06  Design Efficiency 0.8  0.8  0.8  0.8  0.8	stems)  07 08  ank.  HP), DX-DOAS and  07  y Efficiency Unit  EER SEER EER SEER EER SEER EER SEER EER	CALIFORNIA ENI  CALIFORNIA ENI  2023-0  Description of the second of the	ERGY COMMISS  NRCC-M (Page 4 5-04T15:56:20-0  Design Efficie  11 14 14
E OF CALIFORNIA ECHANICAL STIFICATE OF CO ject Name:  IVAC SYSTEM AC-D AC-D AC-D AC-D AC-D AC-D AC-D AC-D	Systems  DMPLIANCE Parkview Bldg-D  M SUMMARY [DRY ing System Information of the content of the	Quantity  1  1  1  Sair conditioners,  AC, air conditioners,  AC, ai	O3 System Serving Single zone Single zone Single zone Condensers, heat pumps, VR O3  Title 20 Soled, single pkg + warm-air tral furnace, gas-fired soled, single pkg + warm-air tral furnace, g	Report Page Date Prepa  Smallest Size Available¹ 140.4(a) and 170.2(c)1  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	2.0.000 20220101  e: red:  04 stem Status Alteration Alteration unit heaters  05  He  Per Design (kBtu/h)  53.6  53.6  53.6  53.6  53.6  53.6  2.0.000 20220101	Rated (kBtu/h)  53.6  53.6  53.6  53.6  53.6  ssary to mee	Space  systems)  07  ent Sizing por 140.4(a&b at 2.3  Supp. Heating Output (kBtu/h)  0  0  0  0  0  Plan s	OS e Type  O8 er Mechanic ), 170.2(c)1 Cooling Sensible Per Design (kBtu/h)  47.9  47.9  47.9  47.9  47.9  A7.9  Reading an ables. Document of the process o	CALIFORNIA  20  Utili  09 al Schedule & 170.2(c)2 Output <sup>2,3</sup> Rated (kBtu/h)  47.9  47.9  47.9  47.9  47.9  47.9  47.9  CALIFORNIA  20  CALIFORNIA  CALIFORNIA  20  CALIFORNIA  20  CALIFORNIA  20  CALIFORNIA  CALIFORNI	De (Load Cald (kBtu/h) 49 49 49 49 49 49 49 49 49 49 49 49 49	1-0523-0004 -04 12:54:05  OMMISSION NRCC-MCH-E (Page 3 of 8) 5:56:20-04:00  ered Heat  11  culations <sup>3,4</sup> Total Sensible Cooling Load (kBtu/h)  42  42  42  42  42  42  42  42  42  62  42  4	STATE OF CALIFORNIA  Mechanical S  CERTIFICATE OF CO  Project Name:  F. HVAC SYSTEM  Dry System Equip  01  3 If equipment is h 4 Authority Having  Dry System Equip  01  Name or Item  Tag  AC-D1  AC-D2  AC-D3  AC-D4  AC-D5  AC-D6  G. PUMPS  This section does  Registration Numb  CA Building Energy  STATE OF CALIFORNIA  Mechanical S  CERTIFICATE OF CO  Project Name: Project Address:  DOCUMENTATION  I certify that this  Documentation Author  MATTHEW PEZES  Company: Pezeshki Engineer  Address: City/State/Zip:	Systems  MPLIANCE Parkview Bldg-D  I SUMMARY (DRY & WET SYSTEMS) Iment Sizing (includes air conditioners, cor 02  leating only, leave cooling output and load a Jurisdiction may ask for load calculations are ment Efficiency (other than Package Term 02  Size Category (Btu/h)  <65kBtuh cooling/ <225kBtuh heating  <65kBtuh cooling/ <225kBtuh heat	ndensers, heat 03 blank. If equip used for complianal Air Condition ( *F)	Report Ve Schema V Sc	Report Page: Date Prepared:  aces and unit heat 04 05 ly, leave heating of and 170.2(c).  Package Terminal 05 ting Mode  Minimum Efficiency Required per Tables 110.2 / Title 20 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.	ters and DOAS sys  0 06  utput and load bla  I Heat Pumps (PTH 06  Design Efficiency 0.8  0.8  0.8  0.8  0.8	stems)  07 08  ank.  HP), DX-DOAS and  07  y Efficiency Unit  EER SEER EER SEER EER SEER EER SEER EER	CALIFORNIA ENI  CALIFORNIA ENI  2023-0  Description of the second of the	ERGY COMMISS  NRCC-M (Page 4 5-04T15:56:20-0  Design Efficie  11 14 14
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AC-D1 AC-D2 AC-D3 AC-D4 AC-D5 AC-D6 AC-D6 AC-D6 AC-D6 AC-D6 AC-D6 AC-D6 AC-D7 AC-D7 AC-D8 AC-D8 AC-D9	Systems  OMPLIANCE Parkview Bldg-D  M SUMMARY [DRY ing System Information of the system Informat	AC, air concentration	O3 System Serving Single zone Single zone Single zone Condensers, heat pumps, VR  O3  Title 20  Soled, single pkg + warm-air tral furnace, gas-fired soled, single pkg + warm-air tral furnace,	Report Page Date Prepa  Smallest Size Available¹ 140.4(a) and 170.2(c)1  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	2.0.000 20220101  e: red:  04 stem Status Alteration Alteration unit heaters  05  He  Per Design (kBtu/h)  53.6  53.6  53.6  53.6  53.6  53.6  2.0.000 20220101	Rated (kBtu/h)  53.6  53.6  53.6  53.6  53.6  ssary to mee	Space  systems)  07  ent Sizing por 140.4(a&b at 2.3  Supp. Heating Output (kBtu/h)  0  0  0  0  0  Plan s	OS e Type  O8 er Mechanic ), 170.2(c)1 Cooling Sensible Per Design (kBtu/h)  47.9  47.9  47.9  47.9  47.9  A7.9  Readbles.  Documents  Readbles.	CALIFORNIA  20  Utili  09 al Schedule & 170.2(c)2 Output <sup>2,3</sup> Rated (kBtu/h)  47.9	De (Load Cald (kBtu/h) 2 Load Cald (kBtu/h) 49 49 49 49 49 49 49 49 49 49 49 49 49	1-0523-0004 -04 12:54:05  OMMISSION NRCC-MCH-E (Page 3 of 8) 5:56:20-04:00  ered Heat  11  culations <sup>3,4</sup> Total Sensible Cooling Load (kBtu/h)  42  42  42  42  42  42  42  42  42  62  42  4	STATE OF CALIFORNIA  Mechanical S  CERTIFICATE OF CO  Project Name:  F. HVAC SYSTEM  Dry System Equip  01  3 If equipment is h 4 Authority Having  Dry System Equip  01  Name or Item  Tag  AC-D1  AC-D2  AC-D3  AC-D4  AC-D5  AC-D6  G. PUMPS  This section does  Registration Numb  CA Building Energy  STATE OF CALIFORNIA  Mechanical S  CERTIFICATE OF CO  Project Name:  Project Address:  DOCUMENTATIO I certify that thi DOCUMENTATIO I certify that t	Systems MPLIANCE Parkview Bldg-D  Discontinuous Bladg-D  Size Category (Btu/h) <a href="mailto:size Category (Btu/h)">Size Category (Btu/h)</a> <a (btu="" category="" h)"="" href="mailto:size Category (Btu/h)&lt;/a&gt;  &lt;a href=" mailto:size="">Size Category (Btu/h)</a> <a (btu="" a="" category="" h)<="" href="mailto:size Category (Btu/h)&lt;/a&gt;  &lt;a href=" mailto:size=""> <a (btu="" a="" category="" h)<="" href="mailto:size Category (Btu/h)&lt;/a&gt;  &lt;a href=" mailto:size=""> <a (btu="" a="" category="" h)<="" href="mailto:size Category (Btu/h)&lt;/a&gt;  &lt;a href=" mailto:size=""> <a (btu="" a="" category="" h)<="" href="mailto:size Category (Btu/h)&lt;/a&gt;  &lt;a href=" mailto:size=""> <a (btu="" a="" category="" h)<="" href="mailto:size Category (Btu/h)&lt;/a&gt;  &lt;a href=" mailto:size=""> <a (btu="" a="" category="" h)<="" href="mailto:size Category (Btu/h)&lt;/a&gt;  &lt;a href=" mailto:size=""> <a (btu="" a="" category="" h)<="" href="mailto:size Category (Btu/h)&lt;/a&gt;  &lt;a href=" mailto:size=""> <a cat<="" href="mailto:size Category (Btu/h)&lt;/a&gt;  &lt;a href=" mailto:size="" td=""><td>of California:  Lead to accurrent components, and so, and the components, and so, and the components of components and compone</td><td>Report Ve Schema V Sc</td><td>Report Page: Date Prepared:  aces and unit heat 04 05  (y, leave heating of and 170.2(c).  Package Terminal 05 ting Mode  Minimum Efficiency Required per Tables 110.2 / Title 20  0.8  0.8  0.8  0.8  0.8  0.8  0.8  0</td><td>ters and DOAS sys  06 06  utput and load bla  I Heat Pumps (PTH 06  Design Efficiency 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8</td><td>stems)  07 08  ank.  HP), DX-DOAS and  07  y Efficiency Unit  EER SEER EER SEER EER SEER EER SEER EER</td><td>CALIFORNIA ENI  2023-0  1 Dual Fuel Heat Pu  08  Cooling Mode  Minimum Efficiency Required per Tables 110.2 / Title 20  11  14  16  16</td><td>ERGY COMMISS  NRCC-Mi (Page 4 5-04T15:56:20-0  Design Efficie  11 14 14</td></a></a></a></a></a></a></a></a>	of California:  Lead to accurrent components, and so, and the components, and so, and the components of components and compone	Report Ve Schema V Sc	Report Page: Date Prepared:  aces and unit heat 04 05  (y, leave heating of and 170.2(c).  Package Terminal 05 ting Mode  Minimum Efficiency Required per Tables 110.2 / Title 20  0.8  0.8  0.8  0.8  0.8  0.8  0.8  0	ters and DOAS sys  06 06  utput and load bla  I Heat Pumps (PTH 06  Design Efficiency 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	stems)  07 08  ank.  HP), DX-DOAS and  07  y Efficiency Unit  EER SEER EER SEER EER SEER EER SEER EER	CALIFORNIA ENI  2023-0  1 Dual Fuel Heat Pu  08  Cooling Mode  Minimum Efficiency Required per Tables 110.2 / Title 20  11  14  16  16	ERGY COMMISS  NRCC-Mi (Page 4 5-04T15:56:20-0  Design Efficie  11 14 14
E OF CALIFORNIA E Chanical TIFICATE OF CO ect Name:  IVAC SYSTEM CE Condition O1 System N AC-D AC-D System Equi O1  AC-D1 AC-D2 AC-D3 AC-D4 AC-D5 AC-D6 OTNOTES: Eq. A(a) and 170 Sistration Num Building Energy E OF CALIFORNIA E Chanical TIFICATE OF CO ect Name:  MANDATOR Stable is used Inpliance with Indatory Measure Interpretation of the components of the components Interpretation of the compo	Systems  OMPLIANCE Parkview Bldg-D  M SUMMARY [DRY ing System Information of the system Informat	AC, air concentration	O3 System Serving Single zone Single zone Single zone Condensers, heat pumps, VR  O3  Title 20  Soled, single pkg + warm-air tral furnace, gas-fired soled, single pkg + warm-air tral furnace,	Report Page Date Prepa  Smallest Size Available¹ 140.4(a) and 170.2(c)1  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	2.0.000 20220101  e: red:  04 stem Status Alteration Alteration unit heaters  05  He  Per Design (kBtu/h)  53.6  53.6  53.6  53.6  53.6  53.6  2.0.000 20220101	Rated (kBtu/h)  53.6  53.6  53.6  53.6  53.6  ssary to mee	Space  systems)  07  ent Sizing por 140.4(a&b at 2.3  Supp. Heating Output (kBtu/h)  0  0  0  0  0  Plan s	OS e Type  O8 er Mechanic ), 170.2(c)1 Cooling Sensible Per Design (kBtu/h)  47.9  47.9  47.9  47.9  47.9  A7.9  Readbles.  Documents  Readbles.	CALIFORNIA  20  Utili  09 al Schedule & 170.2(c)2 Output <sup>2,3</sup> Rated (kBtu/h)  47.9	De (Load Cald (kBtu/h) 2 Load Cald (kBtu/h) 49 49 49 49 49 49 49 49 49 49 49 49 49	1-0523-0004 -04 12:54:05  OMMISSION NRCC-MCH-E (Page 3 of 8) 5:56:20-04:00  ered Heat  11  culations <sup>3,4</sup> Total Sensible Cooling Load (kBtu/h)  42  42  42  42  42  42  42  42  42  62  42  4	STATE OF CALIFORNIA  Mechanical S  CERTIFICATE OF CO  Project Name:  F. HVAC SYSTEM  Dry System Equip  01  3 If equipment is h 4 Authority Having  Dry System Equip  01  Name or Item  Tag  AC-D1  AC-D2  AC-D3  AC-D4  AC-D5  AC-D6  G. PUMPS  This section does  Registration Numb  CA Building Energy  STATE OF CALIFORNIA  Mechanical S  CERTIFICATE OF CO  Project Name:  Project Address:  DOCUMENTATIO I certify that thi DOCUMENTATIO I certify that t	Systems  MPLIANCE Parkview Bldg-D  I SUMMARY (DRY & WET SYSTEMS) Iment Sizing (includes air conditioners, cor  02   leating only, leave cooling output and load of Jurisdiction may ask for load calculations in ment Efficiency (other than Package Term  02  Size Category (Btu/h)   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating   <65kBtuh cooling/ <225kBtuh heating	of California:  Lead to accurrent components, and so, and the components, and so, and the components of components and compone	Report Ve Schema	Report Page: Date Prepared:  aces and unit heat 04 05  (y, leave heating of and 170.2(c).  Package Terminal 05 ting Mode  Minimum Efficiency Required per Tables 110.2 / Title 20  0.8  0.8  0.8  0.8  0.8  0.8  0.8  0	ters and DOAS sys  0 06  utput and load bla  I Heat Pumps (PTH 06  Design Efficiency 0.8  0.8  0.8  0.8  0.8  0.8  0.8  0.8	stems)  07 08  ank.  HP), DX-DOAS and  07  y Efficiency Unit  EER SEER EER SEER EER SEER EER SEER EER	CALIFORNIA ENI  2023-0  1 Dual Fuel Heat Pu  08  Cooling Mode  Minimum Efficiency Required per Tables 110.2 / Title 20  11  14  16  16	ERGY COMMISS  NRCC-Mi (Page 4 5-04T15:56:20-0  Design Efficie  11 14 14

STATE OF CALIFORNIA

Mechanical Systems

CERTIFICATE OF COMPLIANCE

Project Name: Parkview Bldg-C

CALIFORNIA ENERGY COMMISSION

NRCC-MCH-E

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122083 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆 DATE: 10/18/2023

CALIFORNIA ENERGY COMMISSION

NRCC-MCH-E

(Page 4 of 8)

19900 MacArthur Boulevard | Suite 1000



Irvine I California I 92612

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**PARKVIEW** ELEMENTARY VICTOR **ELEMENTARY** SCHOOL DISTRICT 13427 CAHUENGA ROAD VICTORVILLE, CA 92395

SSUED FOR:

REVISIONS:

REGISTRATION/SIGNATURE:

SHEET TITLE:

Documentation Software: Energy Code Ace

Compliance ID: 105717-0523-0003

Report Generated: 2023-05-04 12:56:23

TITLE 24

SHEET NUMBER:

WD PROJ. # DRAWN BY: CHECKED DATE

Mechanical Systems  California Energy Commission	Mechanical Systems	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE  This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	CERTIFICATE OF COMPLIANCE  Project Name: Parkview ES -County Relo Bldg-1 Report Page:  Date Prepared:	NRCC-MCH-E (Page 2 of 7) 2023-05-04T15:57:46-04:00
Project Name:     Parkview ES - County Relo Bidg-1     Report Page:     (Page 1 of 7)       Project Address:     Date Prepared:     2023-05-04T15:57:46-04:00		
A. GENERAL INFORMATION	C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This	table is not editable by the user. If this table says "DOES
01 Project Location (city)     Victorville     04 Total Conditioned Floor Area     2850       02 Climate Zone     14     05 Total Unconditioned Floor Area     0       03 Occupancy Types Within Project:     06 # of Stories (Habitable Above Grade)     1	NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidal 01 02 03 04 05 06	nce. 07 08 09
School or Classroom	System Summary 110.1, AND Pumps 140.4(k), AND Fans/ Economizers 140.4(c), Fans/ Economizers 140.4(c), Fans/ Economizers 140.4(c), Fans/ Economizers 140.4(c), AND Controls 110.2, 120.2, 120.2, 120.1, 160.2	Distribution 120.3, AND Cooling Towers
B. PROJECT SCOPE  This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in	110.2, 140.4(e), 170.2(c) 140.4(e), 170.2(c) 140.4(f), 170.2(c) 120.1, 160.2 140.4(d), 170.2(c) 170.2(c) 170.2(c)	140.4(I), 160.2, 160.3 110.2(e)2 Compliance Results
140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.  01 02 03	(See Table F)         (See Table G)         (See Table H)         (See Table I)         (See Table J)         (See Table K)           Yes         AND         AND         Yes         AND         AND         AND           Mandatory Measures Compliance (See Table Q for Details)	(See Table L)         (See Table M)           AND         COMPLIES
Air System(s)  Wet System Components  □ Heating Air System □ Water Economizer □ Air Economizer □ Cooling Air System □ Pumps □ Electric Resistance Heat	D. EXCEPTIONAL CONDITIONS	
Mechanical Controls System Piping Fan Systems  Mechanical Controls (existing to remain, altered)	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	
Cooling Towers Ductwork (existing to remain, altered or new)  Chillers Ventilation  Boilers Zonal Systems/ Terminal Boxes	E. ADDITIONAL REMARKS  This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	
Boilers Conai Systems/ Terminal Boxes	F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)	
	Space Conditioning System Information           01         02         03         04           System Name         Quantity         System Serving         System Status	05 06  Space Type Utilizing Recovered Heat
	HP-A1 1 Single zone Alteration HP-A2 1 Single zone Alteration	Space type Odnizing necovered freat
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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 105726-0523-0003 Report Generated: 2023-05-04 12:57:50	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 105726-0523-0003 Report Generated: 2023-05-04 12:57:50
Mechanical Systems  California Energy Commission	STATE OF CALIFORNIA  Mechanical Systems	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE  Project Name: Parkview ES -County Relo Bldg-1  Report Page: (Page 5 of 7)  Date Prepared: 2023-05-04T15:57:46-04:00	CERTIFICATE OF COMPLIANCE  Project Name: Parkview ES -County Relo Bidg-1 Report Page:  Date Prepared:	NRCC-MCH-I (Page 6 of 7 2023-05-04T15:57:46-04:00
	O MANDATORY MEASURES DOCUMENTATION LOCATION	
L. DISTRIBUTION (DUCTWORK and PIPING)  This section does not apply to this project.	Q. MANDATORY MEASURES DOCUMENTATION LOCATION  This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.  01	02
M. COOLING TOWERS	Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block No	Plan sheet or construction document location
This section does not apply to this project.	03  Mandatory Measure  Heating Equipment Efficiency per 110.1	04 Plan sheet or construction document location M0-1.1
N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION  Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.	Cooling Equipment Efficiency per 110.1 Furnace Standby Loss Control per 110.2(d)	M0-1.1 NA
These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/  Form/Title	Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)	NA
NRCI-MCH-01-E - Must be submitted for all buildings		
O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE  Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.		
These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/		
Form/Title Systems/Spaces To Be Field Verified  NRCA-MCH-18-A Energy Management Control Systems  T-A-1,2		
P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION		
There are no NRCV forms required for this project.		
Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace  CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 105726-0523-0003	Registration Number: Generated Date/Time:  CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000	Documentation Software: Energy Code Ace  Compliance ID: 105726-0523-0003
Schema Version: rev 20220101 Report Generated: 2023-05-04 12:57:50  STATE OF CALIFORNIA	Schema Version: rev 20220101 STATE OF CALIFORNIA	Report Generated: 2023-05-04 12:57:50
Mechanical Systems  CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE	Mechanical Systems  CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-MCH-I
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.  Project Name: Parkview ES -County Relo Bldg-2 Report Page: (Page 1 of 7)	Project Name:     Parkview ES -County Relo Bldg-2     Report Page:       Date Prepared:	(Page 2 of 7 2023-05-04T16:06:57-04:00
Project Address: Date Prepared: 2023-05-04T16:06:57-04:00	le constituire prouve	
A. GENERAL INFORMATION  01 Project Location (city) Victorville 04 Total Conditioned Floor Area 2850	C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidal.	
02 Climate Zone     14     05 Total Unconditioned Floor Area     0       03 Occupancy Types Within Project:     06 # of Stories (Habitable Above Grade)     1	01 02 03 04 05 06  System Fans/ System Terminal Rev	07 08 09
School or Classroom	Summary 110.1, AND Pumps 140.4(k), 110.2, 120.2, 140.4, (e), 140.4	Distribution   120.3,
B. PROJECT SCOPE  This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.	170.2(c)         170.2(c)         170.2(c)         170.2(c)         (See Table F)         (See Table G)         (See Table H)         (See Table I)         (See Table J)         (See Table K)	(See Table L) (See Table M)
01	Yes AND AND AND Yes AND AND AND AND  Mandatory Measures Compliance (See Table Q for Details)	AND COMPLIES COMPLIES
☑ Heating Air System     ☐ Water Economizer     ☐ Air Economizer       ☑ Cooling Air System     ☐ Pumps     ☐ Electric Resistance Heat	D. EXCEPTIONAL CONDITIONS This table is write filled with used table community because of calcutions made as data entered in tables throughout the form	
Mechanical Controls □ System Piping □ Fan Systems  Mechanical Controls (existing to remain, altered or new) □ Ductwork (existing to remain, altered or new)	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	<u>,                                      </u>
Chillers	E. ADDITIONAL REMARKS  This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	
	F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Space Conditioning System Information	
	01         02         03         04           System Name         Quantity         System Serving         System Status	05 06 Space Type Utilizing Recovered Heat
	HP-A3, A4 2 Single zone Alteration HP-A5, A6 2 Single zone Alteration	
Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace	Registration Number: Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101  Compliance ID: 105768-0523-0002 Report Generated: 2023-05-04 13:07:01	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 105768-0523-0002 Report Generated: 2023-05-04 13:07:01
STATE OF CALIFORNIA	STATE OF CALIFORNIA	
Mechanical Systems  CERTIFICATE OF COMPLIANCE  CRECIFICATE OF COMPLIANCE  NRCC-MCH-E  Report Names - Registrate St. County Release 18 and 18 a	Mechanical Systems  CERTIFICATE OF COMPLIANCE  Project Name: Parking SS County Bolo Bldg 2	CALIFORNIA ENERGY COMMISSION NRCC-MCH-E
Project Name: Parkview ES -County Relo Bldg-2 Report Page: (Page 5 of 7)  Date Prepared: 2023-05-04T16:06:57-04:00	Project Name: Parkview ES -County Relo Bidg-2 Report Page:  Date Prepared:	(Page 6 of 7) 2023-05-04T16:06:57-04:00
L. DISTRIBUTION (DUCTWORK and PIPING)	Q. MANDATORY MEASURES DOCUMENTATION LOCATION	
This section does not apply to this project.	This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.  01  Compliance with Mandatory Measures documented through MCH	02 Plan sheet or construction document location
M. COOLING TOWERS  This section does not apply to this project.	Mandatory Measures Note Block  03	04
N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	Mandatory Measure  Heating Equipment Efficiency per 110.1  Cooling Equipment Efficiency per 110.1	Plan sheet or construction document location M0-1.1 M0-1.1
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.  These documents must be provided to the building inspector during construction and can be found online at	Furnace Standby Loss Control per 110.2(d)  Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)	NA NA
https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/  Form/Title		
NRCI-MCH-01-E - Must be submitted for all buildings		
O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE  Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.  These documents must be provided to the building inspector during construction and can be found online at		
https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/  Systems/Spaces To Be Field		

Systems/Spaces To Be Field Verified

T-HA1,2,3,4,5,6

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Report Generated: 2023-05-04 13:07:01

Compliance ID: 105768-0523-0002

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Report Version: 2022.0.000

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Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Ty	ype per Tables 1 Title 20	10.2 and	Smallest Size Available <sup>1</sup> 140.4(a) and 170.2(c)1	Per Design	eating Outpu	Supp. Heating	Sensible	Output <sup>2,3</sup> Rated	Load Cald Total Heating	Total Sensible
					170.2(c)1	(kBtu/h)	(kBtu/h)	Output (kBtu/h)	Per Design (kBtu/h)	(kBtu/h)	Load (kBtu/h)	Cooling Load (kBtu/h)
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	elec. resistance) uipment shall be the smallest	size, within the	oled, pkg (1phas		Yes lesired equipmen	58.2 nt line, nece	58.2 ssary to mee	0 et the design	48.3 n heating an	48.3 ad cooling lo	55 ads of the l	45 building per
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01	02		03	04	Heating Mode	mum I	06		07	08 Cooling Mo		09
Name or Item Tag	Size Category (Btu/h)	1	Rating Condition	Efficiency	Effici Unit Requir	ency ed per D	esign Efficie	ncy Efficie	ency Unit	Efficienc Required p	y per Desig	gn Efficiency
HP-A1	<65,000		( °F)	HSPF	Title	110.2 / e 20	8	S	EER	Tables 110 Title 20	200.70	14
HP-A2	<65,000			HSPF	F 8	3	8	S	EER	14		14
gistration Num	ber:			Ge	nerated Date/Tim	e:			Docum	mentation So	ftware: Ener	gy Code Ace
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<ol> <li>The infor</li> <li>I am eligi</li> <li>The ener</li> </ol>	mation provided on this Certificate of ble under Division 3 of the Business gy features and performance specific	of Compliance is tru and Professions Co cations, materials,	ue and correct. ode to accept respor components, and m								-	requirements
of Title 24.  The build plans and	4, Part 1 and Part 6 of the California ing design features or system design I specifications submitted to the enf	Code of Regulation features identified orcement agency for	ns. d on this Certificate for approval with this	of Complianc	e are consistent with	n the informat	ion provided on	other applica	ble compliance	documents, w	orksheets, cal	lculations,
inspectio esponsible Designer	ure that a completed signed copy of ns. I understand that a completed si Name:				red to be included w Responsible I		entation the bu					applicable
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Building Energy Te OF CALIFORNIA echanical ETIFICATE OF CO ject Name:  HVAC SYSTEM O1  Tame or Item Tag  HP-A3, A4  HP-A5, A6 FOTNOTES: Equipation of the common proceedings and 170 is common proceeding to the common proceeding to the common proceeding of the common proceeding of the common proceeding to the common proce	Systems  DMPLIANCE Parkview ES -County Relo Bldg-2  M SUMMARY (DRY & WET oment Sizing (includes air co 02  Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii  Unitary Heat Pumps (no elec. resistance)  Unitary Heat Pumps (no elec. resistance)  uipment shall be the smallest 2(c)1. Healthcare facilities air cotice to show rated output con the ating only, leave cooling out g Jurisdiction may ask for load oment Efficiency (other than 02	SYSTEMS) Inditioners, con Equipment Ty  Air-coo Air-coo Air-coo asize, within the re excepted. Apacity on the extept and load is a calculations of a Package Termin	oled, pkg (1phasoled, pkg (1ph	Dumps, VRF  10.2 and  10.2 and  dule. Sensitionent is cooling ance per 14  Doners (PTAC)  04	Report Page Date Prepar  F, furnaces and to 04  Smallest Size Available 1 140.4(a) and 170.2(c) 1  Yes  Yes  Yes  Jesired equipment and processing only, leave he 10.4(b) and 170.2  C) and Package 10 Heating Mode  Heating Mode  Winite Efficity  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	Per Design (kBtu/h)  28.5  28.5  28.5  at line, nece strain outp (2(c).  Terminal Heres (2(c).	Rated (kBtu/h)  28.5  28.5  28.5  com specification and load in the composition of the co	O7 ent Sizing per 140.4(a&b) at 2.3  Supp. Heating Output (kBtu/h)  O oet the design tion sheet to blank.  OTHP), DX-D	O8 er Mechanic , 170.2(c) 13 Cooling ( Sensible Per Design (kBtu/h) 23.2 23.2 c heating an ables.  OAS and Du	CALIFORNIA  20  09 al Schedule & 170.2(c)2  Output <sup>2,3</sup> Rated (kBtu/h)  23.2  23.2  23.2  ad cooling lo	ENERGY CC  ENERGY CC  23-05-04T16  10  (kBtu/h)  Load Calc  Total  Heating Load (kBtu/h)  55  55  ads of the B  t Pumps)  ode  n y  Derig 2 /	5-0523-0003 -04 12:57:50  OMMISSION NRCC-MCH-E (Page 3 of 7) 5:06:57-04:00  11  tulations <sup>3,4</sup> Total Sensible Cooling Load (kBtu/h)  45  building per
A Building Energy TE OF CALIFORNIA RECHANICAL RETIFICATE OF CO Dject Name:  HVAC SYSTEM Y System Equip 01  HP-A3, A4  HP-A5, A6  DOTNOTES: Equip 0.4(a) and 170 is common pro is equipment is in the common provided i	Systems  OMPLIANCE Parkview ES -County Relo Bldg-2  A SUMMARY (DRY & WET oment Sizing (includes air co 02  Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii  Unitary Heat Pumps (no elec. resistance)  Unitary Heat Pumps (no elec. resistance)  uipment shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the small be the small be the smallest 1.2(c)1. Healthcare facilities air	SYSTEMS) Inditioners, con Equipment Ty  Air-coo Air-coo Air-coo asize, within the re excepted. Apacity on the extept and load is a calculations of a Package Termin	oled, pkg (1phasoled, pkg (1ph	Dumps, VRF  10.2 and  10.2 and  dule. Sensitioner is cooling ance per 14  Doners (PTAC)  04  Efficiency  HSPF	Report Page Date Prepai  F, furnaces and to 04  Smallest Size Available 1 140.4(a) and 170.2(c) 1  Yes  Yes  Ves  Ves  Ves  Ves  Ves  Ves	Per Design (kBtu/h)  28.5  28.5  28.5  at line, nece that comes from the composition of t	eating Output Rated (kBtu/h) 28.5 28.5 28.5 ssary to meeting and load in the control of the cont	O7 ent Sizing per 140.4(a&b) at 2.3  Supp. Heating Output (kBtu/h)  O oet the design tion sheet to blank.  OTHP), DX-D	O8 er Mechanic , 170.2(c) 1 (c) Cooling (c) Sensible Per Design (kBtu/h) 23.2 23.2 c) heating an ables.  OAS and Du or	CALIFORNIA  20  09 al Schedule & 170.2(c)2  Output <sup>2,3</sup> Rated (kBtu/h)  23.2  23.2  23.2  ad cooling lo	ENERGY CO  ENERGY CO  23-05-04T16  10  (kBtu/h)  Load Calc  Total  Heating Load (kBtu/h)  55  55  ads of the B  t Pumps)  ode  n  y  Desig	5-0523-0003 -04 12:57:50  OMMISSION NRCC-MCH-E (Page 3 of 7) 5:06:57-04:00  11  tulations <sup>3,4</sup> Total Sensible Cooling Load (kBtu/h)  45  45  building per  09
A Building Energy TE OF CALIFORNIA Lechanical RTIFICATE OF CO Diect Name:  HVAC SYSTEM Y System Equip 01  HP-A3, A4  HP-A5, A6  DOTNOTES: Equip 0.4(a) and 170 is common proceeding to the common pr	Systems  OMPLIANCE Parkview ES -County Relo Bldg-2  A SUMMARY (DRY & WET oment Sizing (includes air co 02  Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii  Unitary Heat Pumps (no elec. resistance)  Unitary Heat Pumps (no elec. resistance)  uipment shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the smallest 1.2(c)1. Healthcare facilities air citice to show rated output content on the shall be the small be the small be the smallest 1.2(c)1. Healthcare facilities air	SYSTEMS) Inditioners, con Equipment Ty  Air-coo Air-coo Size, within the re excepted. Appacity on the excepted and calculations to the coordinate of the coo	odensers, heat p  03  Type per Tables 1: Title 20  Deled, pkg (1phase plant) Deled, pkg (1phase	Dumps, VRF  10.2 and  10.2 and  10.3 and  10.4 Efficiency  HSPF  HSPF  Ge  Rej	Report Page Date Prepar  F, furnaces and to 04  Smallest Size Available 1 140.4(a) and 170.2(c) 1  Yes  Yes  Yes  Jesired equipment and processing only, leave he 10.4(b) and 170.2  C) and Package 10 Heating Mode  Heating Mode  Winite Efficity  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	Per Design (kBtu/h)  28.5  28.5  28.5  28.5  Int line, nece attracting outper (c).  Ferminal Here is a comparable of the	eating Output Rated (kBtu/h) 28.5 28.5 28.5 ssary to meeting and load in the control of the cont	O7 ent Sizing per 140.4(a&b) at 2.3  Supp. Heating Output (kBtu/h)  O oet the design tion sheet to blank.  OTHP), DX-D	O8 er Mechanic ), 170.2(c)1 a Cooling ( Sensible Per Design (kBtu/h)  23.2  23.2  a heating an ables.  OAS and Du  or Design control of the c	CALIFORNIA  20  09 al Schedule & 170.2(c)2 Output <sup>2,3</sup> Rated (kBtu/h)  23.2  23.2  23.2  d cooling lo	ENERGY CO  ENERGY CO  23-05-04T16  10  (kBtu/h)  Load Calc  Total Heating Load (kBtu/h)  55  ads of the B  t Pumps)  ode  n y  per	5-0523-0003 -04 12:57:50  OMMISSION NRCC-MCH-E (Page 3 of 7) 5:06:57-04:00  11  Total Sensible Cooling Load (kBtu/h) 45  45  building per  09  gn Efficiency 14 14  14
A Building Energy  ATE OF CALIFORNIA  Iechanical  IRTIFICATE OF CO  Oject Name:  HVAC SYSTEM  Ty System Equiport  O1  Name or Item  Tag  HP-A3, A4  HP-A5, A6  OOTNOTES: Equiport  O1  Name or Item  Tag  HP-A3, A4  HP-A5, A6  OH-A5, A6  OH-A5, A6  Authority Havin  Tag  HP-A3, A4  HP-A5, A6	Systems  OMPLIANCE Parkview ES -County Relo Bldg-2  A SUMMARY (DRY & WET oment Sizing (includes air co 02  Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii  Unitary Heat Pumps (no elec. resistance)  Unitary Heat Pumps (no elec. resistance)  uipment shall be the smallest actice to show rated output con the state of	SYSTEMS) Inditioners, con Equipment Ty  Air-coo Air-coo Size, within the re excepted. Appacity on the excepted and calculations to the coordinate of the coo	odensers, heat p  03  Type per Tables 1: Title 20  Deled, pkg (1phase plant) Deled, pkg (1phase	Dumps, VRF  10.2 and  10.2 and  10.3 and  10.4 Efficiency  HSPF  HSPF  Ge  Rej	Report Page Date Prepar  F, furnaces and to 04  Smallest Size Available 1 140.4(a) and 170.2(c) 1  Yes Yes  Ves  Ves  Ves  Ves  Ves  Ves  Ves	Per Design (kBtu/h)  28.5  28.5  28.5  28.5  Int line, nece attracting outper (c).  Ferminal Here is a comparable of the	eating Output Rated (kBtu/h) 28.5 28.5 28.5 ssary to meeting and load in the control of the cont	O7 ent Sizing per 140.4(a&b) at 2.3  Supp. Heating Output (kBtu/h)  O oet the design tion sheet to blank.  OTHP), DX-D	O8 er Mechanic ), 170.2(c)1 a Cooling ( Sensible Per Design (kBtu/h)  23.2  23.2  a heating an ables.  OAS and Du  or Design control of the c	CALIFORNIA  20  09 al Schedule & 170.2(c)2  Output <sup>2,3</sup> Rated (kBtu/h)  23.2  23.2  23.2  d cooling lo	ENERGY CO  ENERGY CO  23-05-04T16  10  (kBtu/h)  Load Calc  Total Heating Load (kBtu/h)  55  ads of the B  t Pumps)  ode  n y  per	5-0523-0003 -04 12:57:50  OMMISSION NRCC-MCH-E (Page 3 of 7) 5:06:57-04:00  11  Total Sensible Cooling Load (kBtu/h) 45  45  building per  09  09  gn Efficiency 14 14  14
A Building Energy  A Building En	Systems  MPLIANCE Parkview ES -County Relo Bldg-2  M SUMMARY (DRY & WET DIMENT Sizing (includes air co  02  Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii  Unitary Heat Pumps (no elec. resistance)  Sipment shall be the smallest 1.2(c)1. Healthcare facilities and incide to show rated output con the eating only, leave cooling out graph Jurisdiction may ask for load comment Efficiency (other than  02  Size Category (Btu/h) <a href="#">Size Category</a> (Btu/h)  Systems  MPLIANCE	SYSTEMS) Inditioners, con Equipment Ty  Air-coo Air-coo Air-coo Size, within the re excepted. Equipment and load is a pacity on the equipment and load is a pacity on the equipment and calculations to the coordinate of the coordi	odensers, heat p  03  Type per Tables 1: Title 20  Deled, pkg (1phase plant) Deled, pkg (1phase	Dumps, VRF  10.2 and  10.2 and  10.3 and  10.4 Efficiency  HSPF  HSPF  Ge  Rej	Report Page Date Prepar  F, furnaces and to 04  Smallest Size Available 1 140.4(a) and 170.2(c) 1  Yes  Yes  Yes  Jesired equipment and processing only, leave he 10.4(b) and 170.2  C) and Package 1 0  Heating Mode  Mining Efficity Requiry Tables Title F 8  F 8  Penerated Date/Tim  port Version: 2022  hema Version: rev	Per Design (kBtu/h)  28.5  28.5  28.5  28.5  ant line, nece straing outper strain	eating Output Rated (kBtu/h) 28.5 28.5 28.5 ssary to meeting and load in the control of the cont	O7 ent Sizing per 140.4(a&b) at 2.3  Supp. Heating Output (kBtu/h)  O oet the design tion sheet to blank.  OTHP), DX-D	O8 er Mechanic ), 170.2(c)1 Cooling ( Sensible Per Design (kBtu/h) 23.2 23.2 23.2 n heating an obles.  OAS and Du O7 ency Unit EER EER Docum	CALIFORNIA  20  09 al Schedule & 170.2(c)2  Output <sup>2,3</sup> Rated (kBtu/h)  23.2  23.2  23.2  23.2  d cooling lo	ENERGY CO  ENERGY CO  ENERGY CO  23-05-04T16  10  (kBtu/h)  Load Calc  Total Heating Load (kBtu/h)  55  ads of the B  t Pumps)  ode  n y  Design  ENERGY CO  ENERGY CO  ENERGY CO	5-0523-0003 -04 12:57:50  OMMISSION NRCC-MCH-E (Page 3 of 7) 5:06:57-04:00  11  Total Sensible Cooling Load (kBtu/h) 45  45  building per  09  gn Efficiency 14 14  14  OMMISSION NRCC-MCH-E
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ATE OF CALIFORNIA Mechanical ERTIFICATE OF CO TOJECT Name:  HVAC SYSTEM TY System Equil  O1  Name or Item Tag  HP-A3, A4  HP-A5, A6  COOTNOTES: Equil Total Tag  HP-A3, A4  HP-A5, A6  COTNOTES: Equil Total Tag  HP-A3, A4  HP-A5, A6  COUNTY Havin Tag  HP-A3, A4  HP-A5, A6  COUNTY Havin Tag  Authority Havin Tag  HP-A3, A4  HP-A5, A6  COUNTY HAVIN Tag  HP-A3, A4  HP-A5, A6  COUNTY HAVIN Tag  Tag  HP-A3, A4  HP-A5, A6  COUNTY HAVIN Tag  Tag  Tag  HP-A3, A4  HP-A5, A6  COUNTY HAVIN Tag  HP-A3, A4  HP-A5, A6  COUNTY HAVIN Tag  Tag  Tag  HP-A3, A4  HP-A5, A6  COUNTY HAVIN Tag  Tag  Tag  Tag  HP-A3, A4  HP-A5, A6  COUNTY HAVIN Tag  Tag  Tag  Tag  HP-A3, A4  HP-A5, A6  COUNTY HAVIN Tag  Tag  Tag  HP-A3, A4  HP-A5, A6  COUNTY HAVIN Tag  Tag  Tag  Tag  Tag  Tag  Tag  Tag	Systems  DMPLIANCE Parkview ES -County Relo Bldg-2  A SUMMARY (DRY & WET oment Sizing (includes air co 02  Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii  Unitary Heat Pumps (no elec. resistance)  Size Category (Btu/h)  Size Category (Btu/h)  Size Category (Btu/h)  Coment Efficiency (other than 02  Size Category (Btu/h)  Size Category (Btu/h)  Size Category (Btu/h)  Coment Efficiency Standards - 2022 No object (Btu/h)  Coment Efficiency Standards - 2022 No object (Btu/h)  Size Category (Btu/h)  Coment Efficiency Standards - 2022 No object (Btu/h)  Size Category (Btu/h)  Coment Efficiency Standards - 2022 No object (Btu/h)  Size Category (Btu/h)  Coment Efficiency Standards - 2022 No object (Btu/h)  Size Category (Btu/h)  Coment Efficiency Standards - 2022 No object (Btu/h)  Coment Efficiency (Other than 102)  Coment Efficiency (O	Equipment Ty  Air-coo  Air-coo	of California: ue and correct. ode to accept respondence of california: ue and correct. ode to accept respondence of components, and many	Dumps, VRF  10.2 and  10.2 and  10.3 and  10.4 Efficiency  HSPF  HSPF  Ge  Rej Sch	Report Page Date Prepai  F, furnaces and u  04  Smallest Size Available¹ 140.4(a) and 170.2(c)1  Yes  Yes  Ves  Ves  Ves  Ves  Ves  Ves	20.000 20220101  e: red:  mit heaters  05  Per Desigr (kBtu/h)  28.5  28.5  28.5  at line, nece at comes from the come and	Rated (kBtu/h)  28.5  28.5  28.5  28.5  28.6  28.7  28.7  28.7  28.8  28.8  28.8  28.9  28	or o	O8  or Mechanic  or Mechanic  or Tooling (  Sensible  Per Design  (kBtu/h)  23.2  23.2  or heating and  obles.  OAS and Du  or Tooling (  continued to the compliance of the c	CALIFORNIA  20  09 al Schedule 8 170.2(c)2  Output <sup>2,3</sup> Rated (kBtu/h)  23.2  23.2  23.2  23.2  d cooling lo  Minimur Efficienc Required p Tables 110 Title 20  14  14  14  CALIFORNIA  20  CALIFORNIA  20  CALIFORNIA  20  Cappliance of the component of the compo	ENERGY CO  23-05-04T16  10  (kBtu/h)  Load Calc  Total Heating Load (kBtu/h)  55  55  ads of the B  t Pumps)  ode  n y  Designer  ENERGY CO  23-05-04T16	5-0523-0003 -04 12:57:50  OMMISSION NRCC-MCH-E (Page 3 of 7) 5:06:57-04:00  11  Total Sensible Cooling Load (kBtu/h) 45  45  building per  09  09  09  OMMISSION NRCC-MCH-E (Page 7 of 7) 5:06:57-04:00  OMMISSION NRCC-MCH-E (Page 7 of 7) 5:06:57-04:00
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ATE OF CALIFORNIA Mechanical ERTIFICATE OF CO roject Name:  HVAC SYSTEM ry System Equip  01  Name or Item Tag  HP-A3, A4  HP-A5, A6  FOOTNOTES: Equipment is in a common pro it is common pro if equipment is in a common pro	Systems  DMPLIANCE Parkview ES -County Relo Bldg-2  A SUMMARY (DRY & WET oment Sizing (includes air co 02  Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii  Unitary Heat Pumps (no elec. resistance)  Size Category (Btu/h)  Size Category (Btu/h)  Size Category (Btu/h)  Coment Efficiency (other than 02  Size Category (Btu/h)  Size Category (Btu/h)  Size Category (Btu/h)  Coment Efficiency Standards - 2022 No object (Btu/h)  Coment Efficiency Standards - 2022 No object (Btu/h)  Size Category (Btu/h)  Coment Efficiency Standards - 2022 No object (Btu/h)  Size Category (Btu/h)  Coment Efficiency Standards - 2022 No object (Btu/h)  Size Category (Btu/h)  Coment Efficiency Standards - 2022 No object (Btu/h)  Size Category (Btu/h)  Coment Efficiency Standards - 2022 No object (Btu/h)  Coment Efficiency (Other than 102)  Coment Efficiency (O	Equipment Ty  Air-coo  Air-coo	of California: ue and correct. ode to accept respondence of california: ue and correct. ode to accept respondence of components, and many	Dumps, VRF  10.2 and  10.2 and  10.3 and  10.4 Efficiency  HSPF  HSPF  Ge  Rej Sch	Report Page Date Prepai  F, furnaces and u  04  Smallest Size Available¹ 140.4(a) and 170.2(c)1  Yes  Yes  Ves  Ves  Ves  Ves  Ves  Ves	20.000 20220101  e: red:  mit heaters  05  Per Desigr (kBtu/h)  28.5  28.5  28.5  at line, nece at comes from the come and	Rated (kBtu/h)  28.5  28.5  28.5  28.5  28.6  28.7  28.7  28.7  28.8  28.8  28.8  28.9  28	or o	O8  or Mechanic  or Mechanic  or Tooling (  Sensible  Per Design  (kBtu/h)  23.2  23.2  or heating and  obles.  OAS and Du  or Tooling (  continued to the compliance of the c	CALIFORNIA  20  09 al Schedule 8 170.2(c)2  Output <sup>2,3</sup> Rated (kBtu/h)  23.2  23.2  23.2  23.2  d cooling lo  Minimur Efficienc Required p Tables 110 Title 20  14  14  14  CALIFORNIA  20  CALIFORNIA  20  CALIFORNIA  20  Cappliance of the component of the compo	ENERGY CO  23-05-04T16  10  (kBtu/h)  Load Calc  Total Heating Load (kBtu/h)  55  55  ads of the B  t Pumps)  ode  n y  Designer  ENERGY CO  23-05-04T16	5-0523-0003 -04 12:57:50  OMMISSION NRCC-MCH-E (Page 3 of 7) 5:06:57-04:00  11  Total Sensible Cooling Load (kBtu/h) 45  45  building per  09  09  09  OMMISSION NRCC-MCH-E (Page 7 of 7) 5:06:57-04:00  OMMISSION NRCC-MCH-E (Page 7 of 7) 5:06:57-04:00
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ATE OF CALIFORNIA Mechanical ERTIFICATE OF CO roject Name:  HVAC SYSTEM Ty System Equip  01  Name or Item Tag  HP-A3, A4  HP-A5, A6  FOOTNOTES: Equipment is in the common properties of the common	Systems  MARY (DRY & WET  MISUMMARY (DRY & WET  Dement Sizing (includes air co  02  Equipment Category per  Tables 110.2, 140.4(a)2 and  170.2(c)3aii  Unitary Heat Pumps (no elec. resistance)  Unitary Heat Pumps (no elec. resistance)  uipment shall be the smallest  12(c)1. Healthcare facilities and incide to show rated output con the ating only, leave cooling out grant shall be the smallest  12(c)1. Healthcare facilities and 12(c)1. Healthcare facilities and 12(c)1. Healthcare facilities and 13(c) 14(c) Size Category (Btu/h)  As of the Business (Branta and part for fane Calfornia (Branta and part for	Equipment Ty  Air-coo  Air-coo	of California: ue and correct. ode to accept respondence of california: ue and correct. ode to accept respondence of components, and many	Dumps, VRF  Dumps, VRF  10.2 and  10.2 and  10.3 and  10.4 and  Efficiency  HSPF  HSPF  Ge  Rej Sch  Sch  Sch  Sch  Sch  Sch  Sch  Sch	Report Page Date Prepai  F, furnaces and u  04  Smallest Size Available¹ 140.4(a) and 170.2(c)1  Yes  Yes  Ves  Ves  Ves  Ves  Ves  Ves	e: red:  init heaters  o5  Per Desigr (kBtu/h)  28.5  28.5  at line, nece at comes fro eating outp 2(c).  Ferminal He 15  mum ency ed per 110.2 / e 20  8  8  e: 2.0.000 20220101  e: red:  on Author Sign the informat permit(s) issue the informat per	Rated (kBtu/h)  28.5  28.5  28.5  28.5  28.6  28.7  28.7  28.7  28.8  28.8  28.8  28.9  28	or o	O8 er Mechanic (), 170.2(c)1 Cooling () Sensible Per Design (kBtu/h) 23.2 23.2 2 heating an ables.  OAS and Du O7 ency Unit EER EER  Docum Reg	CALIFORNIA  20  09 al Schedule 8. 170.2(c)2 Output <sup>2,3</sup> Rated (kBtu/h)  23.2  23.2  23.2  d cooling for the c	ENERGY CO  23-05-04T16  10  (kBtu/h)  Load Calc  Total Heating Load (kBtu/h)  55  55  ads of the B  t Pumps)  ode  n y  ENERGY CO  23-05-04T16  ce ID: 105768 ed: 2023-05-04T16  essigner) conform to the order sheets, call agency for all pancy.	5-0523-0003 -04 12:57:50  OMMISSION NRCC-MCH-E (Page 3 of 7) 5:06:57-04:00  11  11  culations <sup>3,4</sup> Total Sensible Cooling Load (kBtu/h) 45  45  building per  09  om Efficiency 14 14  14  OMMISSION NRCC-MCH-E (Page 7 of 7) 6:06:57-04:00  ommission NRCC-MCH-E (Page 7 of 7) 6:06:57-04:00  ommission NRCC-MCH-E (Page 7 of 7) 6:06:57-04:00
TATE OF CALIFORNIA Mechanical ERTIFICATE OF CO Troject Name:  C. HVAC SYSTEN Ory System Equip O1  Name or Item Tag  HP-A3, A4  HP-A5, A6  FOOTNOTES: Equiponent is in Authority Havin Ory System Equip O1  Name or Item Tag  HP-A3, A4  HP-A5, A6  Registration Num CA Building Energy TATE OF CALIFORNIA Mechanical ERTIFICATE OF Co Troject Name: Troject Address: Troject Address: Troject Address: Troject Name: Tro	Systems  MARY (DRY & WET  MISUMMARY (DRY & WET  Dement Sizing (includes air co  02  Equipment Category per  Tables 110.2, 140.4(a)2 and  170.2(c)3aii  Unitary Heat Pumps (no elec. resistance)  Unitary Heat Pumps (no elec. resistance)  uipment shall be the smallest  12(c)1. Healthcare facilities and incide to show rated output con the ating only, leave cooling out grant shall be the smallest  12(c)1. Healthcare facilities and 12(c)1. Healthcare facilities and 12(c)1. Healthcare facilities and 13(c) 14(c) Size Category (Btu/h)  As of the Business (Branta and part for fane Calfornia (Branta and part for	SYSTEMS) Inditioners, con  Equipment Ty  Air-coo  Air-coo	of California: undersers, heat p  03  /pe per Tables 1: Title 20  Deled, pkg (1phase) e available option equipment schee blank. If equipment schee blank. If equipment schee blank. If equipment schee blank of complia  Rating Condition ( °F)  Physical Compliance  Of California: under the components, and mand of the components, and mand of the components of the components of the compliance of the components	Dumps, VRI  10.2 and  10.2 and  10.3 and  10.4 Efficiency  HSPF HSPF  Ge Rej Sch  The and core  The	Report Page Date Prepai  F, furnaces and u  04  Smallest Size Available¹ 140.4(a) and 170.2(c)1  Yes  Yes  Yes  desired equipment ble cooling outpoing only, leave he 10.4(b) and 170.2  C) and Package 1  OHeating Mode  Mining Efficit Requir Tables Title F  8  Report Page Date Prepai  Port Version: 2022 Thema Version: rev  Report Page Date Prepai	e: red:  init heaters  o5  Per Design (kBtu/h)  28.5  28.5  28.5  at line, nece at comes from the composition of the composition of the composition of the composition of the informat permit (s) issued the composition of the informat permit (s) issued the composition of the compo	Rated (kBtu/h)  28.5  28.5  28.5  28.5  28.6  28.7  28.7  28.7  28.8  28.8  28.8  28.9  28	or o	O8  or Mechanic  or Mechanic  or Tooling  Sensible Per Design  (kBtu/h)  23.2  23.2  or heating and  obles.  OAS and Du  or Compliance  or Co	CALIFORNIA  20  09 al Schedule & 170.2(c)2 Output <sup>2,3</sup> Rated (kBtu/h)  23.2  23.2  23.2  d cooling loc Minimure Efficience Required properties 110 Title 20 14 14 14  14  14  14  16  17  18  18  18  18  18  18  18  18  18	ENERGY CO  23-05-04T16  10 (kBtu/h)  Load Calc Total Heating Load (kBtu/h)  55  ads of the B  t Pumps)  ode  n y  ENERGY CO  23-05-04T16  ce ID: 105768 ed: 2023-05-  ENERGY CO  23-05-04T16  ce ID: 105768 ed: 2023-05-  ENERGY CO  23-05-04T16  ce ID: 105768 ed: 2023-05-	5-0523-0003 -04 12:57:50  OMMISSION NRCC-MCH-E (Page 3 of 7) 5:06:57-04:00  11  11  culations <sup>3,4</sup> Total Sensible Cooling Load (kBtu/h)  45  45  building per  09  Gregory 14  14  14  OMMISSION NRCC-MCH-E (Page 7 of 7) 6:06:57-04:00  ommission NRCC-MCH-E (Page 7 of 7) 6:06:57-04:00
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**Mechanical Systems** 

Project Name: Parkview ES -County Relo Bldg-1

CERTIFICATE OF COMPLIANCE

**Mechanical Systems** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E (Page 4 of 7) Project Name: Parkview ES -County Relo Bldg-1 2023-05-04T15:57:46-04:00 This section does not apply to this project. H. FAN SYSTEMS & AIR ECONOMIZERS This section does not apply to this project. I. SYSTEM CONTROLS This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems. 01 02 03 04 05 06 | Conditioned | Thermostats | Shut-Off | Zone | Zone | Controls | 10.2(b) & (c)¹, 120.2(a) | 160.3(a)2A or 141.0(b)2E & 160.3(a)2D | 160.3(a)2D | 160.3(a)2F | 160.3(a)2B | 160.3(a)2B | 170.2(c)4D | 17 NA: Single Zone NA: No operable windows Single zone <= 25,000 ft<sup>2</sup> EMCS **EMCS** <sup>1</sup>FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to

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Report Version: 2022.0.000

Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 105726-0523-0003

CALIFORNIA ENERGY COMMISSION

Documentation Software: Energy Code Ace

Compliance ID: 105768-0523-0002 Report Generated: 2023-05-04 13:07:01

(Page 4 of 7) 2023-05-04T16:06:57-04:00

NRCC-MCH-E

Report Generated: 2023-05-04 12:57:50

CALIFORNIA ENERGY COMMISSION

2023-05-04T15:57:46-04:00

have setback thermostats.

K. TERMINAL BOX CONTROLS

Registration Number:

STATE OF CALIFORNIA

**Mechanical Systems** 

CERTIFICATE OF COMPLIANCE

K. TERMINAL BOX CONTROLS This section does not apply to this project.

Registration Number:

J. VENTILATION AND INDOOR AIR QUALITY This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

have setback thermostats.

Project Name: Parkview ES -County Relo Bldg-2

This section does not apply to this project.

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

J. VENTILATION AND INDOOR AIR QUALITY This section does not apply to this project.

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122083 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □



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Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884-3834 PEI #600.030

**PARKVIEW** 

ELEMENTARY VICTOR ELEMENTARY SCHOOL DISTRICT 13427 CAHUENGA ROAD VICTORVILLE, CA 92395

H. FAN SYSTEMS & AIR	ECONOMIZER	S						
This section does not apply	to this project.							
I. SYSTEM CONTROLS								
This table is used to demoi 141.0(b)2E 180.2(b)2 for a			atory controls in 110.2 and 1 ems.	20.2 and preso	criptive controls	in 140.4(f) and (n), 170.2	?(c)4D 170.2(c)4L	or requirements in
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c) <sup>1</sup> , 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
T-HA1,2,3,4,5,6	Single zone	<= 25,000 ft <sup>2</sup>	EMCS	EMCS	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows
	Single zone	(ft <sup>2</sup> ) <= 25,000 ft <sup>2</sup>	180.2(b)2	160.3(a)2D EMCS	160.3(a)2F NA: Single Zone	EMCS	170.2(c)4D NA: Single Zone	NA: No operable windows

REGISTRATION/SIGNATURE:

WD PROJ. # DRAWN BY: CHECKED DATE

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P:\600-Westgroup Designs\600-030\_VESD\_17\_Sites\_HVAC\_Replacement\Drawings\Park View ES\Drawings\Mechanical\M0-4.3.dwg Jul 24, 2023 - 1:44pm iggy

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

NRCA-MCH-18-A Energy Management Control Systems

There are no NRCV forms required for this project.

Registration Number:

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Mechanical Controls  Mechanical Controls (existing to remain, altere	□ System Piping  d □ Cooling Towers	☐ Fan Systems ☐ Ductwork (existing to remain, altered or new)	This table is auto-filled with uneditable comments because of selection
or new)	Chillers	Ventilation	E. ADDITIONAL REMARKS
	Boilers	☐ Zonal Systems/ Terminal Boxes	This table includes remarks made by the permit applicant to the Author
			F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)  Space Conditioning System Information
			01 02 System Name Quantity 5
			HP-R1 2
Registration Number:	Generated Date/Time:	Documentation Software: Energy Code Ace	Registration Number:
CA Building Energy Efficiency Standards - 2022 Nonresidential Co	empliance Report Version: 2022.0.000	Compliance ID: 105858-0523-0002	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
	Schema Version: rev 20220101	Report Generated: 2023-05-04 15:32:55	
tate of california  Mechanical Systems		CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA  Mechanical Systems
CERTIFICATE OF COMPLIANCE Project Name: Parkview ES - Relo 20 & 22	Report Page:	NRCC-MCH-E (Page 5 of 7)	CERTIFICATE OF COMPLIANCE Project Name: Parkview ES - Relo 20 & 22
•	Date Prepared:	2023-05-04T18:32:52-04:00	
			Q. MANDATORY MEASURES DOCUMENTATION LOCATION
M. COOLING TOWERS  This section does not apply to this project.			This table is used to indicate where mandatory measures are document
mis section does not apply to this project.			01 Compliance with Mandatory Measures documented through MCH
N. DECLARATION OF REQUIRED CERTIFICATES OF INS Selections have been made based on information provided		ne changed, please explain why in Table E Additional Remarks.	Mandatory Measures Note Block 03
These documents must be provided to the building inspecto https://www.energy.ca.gov/title24/2019standards/2019_c			Mandatory Meas Heating Equipment Efficiency per 110.1
	Form/Title		Cooling Equipment Efficiency per 110.1 Furnace Standby Loss Control per 110.2(d)
NRCI-MCH-01-E - Must be submitted for all buildings	11		Heat Pump with Supplemental electric Resistance Heater Controls per
O. DECLARATION OF REQUIRED CERTIFICATES OF AC			
These documents must be provided to the building inspecto	or during construction and can be found online at	ne changed, please explain why in Table E Additional Remarks.	
https://www.energy.ca.gov/title24/2019standards/2019_c	ompliance_documents/Nonresidential_Documents/NRCA/ Form/Title	Systems/Spaces To Be Field	
NRCA-MCH-18-A Energy Management Control Systems	N. VI	Verified T-CLS-20 & 22	
D DECLADATION OF BEOLUBED CONTENANTS OF THE	IEICATION		
P. DECLARATION OF REQUIRED CERTIFICATES OF VER There are no NRCV forms required for this project.	II CATION		
Registration Number:	Generated Date/Time:	Documentation Software: Energy Code Ace	Registration Number:
CA Building Energy Efficiency Standards - 2022 Nonresidential Co	Per Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 105858-0523-0002 Report Generated: 2023-05-04 15:32:55	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
STATE OF CALIFORNIA			STATE OF CALIFORNIA
Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E	Mechanical Systems  CERTIFICATE OF COMPLIANCE
The state of the s	nanical systems that are within the scope of the permit applica	tion and are demonstrating compliance using the prescriptive	Project Name: Parkview ES - ReloS 21,23,24,26,27,30
Project Name: Parkview ES - ReloS 21,23,24,26,27,30 Project Address:	Report Page: Date Prepared:	(Page 1 of 7) 2023-05-04T18:50:04-04:00	
Project Address:	Date Prepared:	2023-03-04118:50:04-04:00	C. COMPLIANCE RESULTS
A. GENERAL INFORMATION 01 Project Location (city)	Victorville 04 Total Conditioned Flo	or Area 5760	Table C will indicate if the project data input into the compliance docu
02 Climate Zone	14 05 Total Unconditioned	Floor Area 0	NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Tab  01 02 03 04
O3 Occupancy Types Within Project:  Relocatable Public School	06 # of Stories (Habitable	e Above Grade) 1	System Summary 110.1, AND Pumps AND Economizers AND Cont
1			110.1, AND 140.4(k), 170.2(c)4l AND 140.4(e),
B. PROJECT SCOPE This table Includes mechanical systems or components that	are within the scope of the permit application and are demor	nstrating compliance using the prescriptive path outlined in	170.2(c) 170.2(c) 170.2(c) (See Table F) (See Table G) (See Table H) (See Table H)
140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations. 01	02	03	Yes AND AND AND Ye
Air System(s)	Wet System Components	Dry System Components	Mandatory Measures Con
	☐ Water Economizer ☐ Pumps	☐ Electric Resistance Heat	D. EXCEPTIONAL CONDITIONS
Mechanical Controls  Mechanical Controls (existing to remain, altere	□ System Piping  □ Cooling Towers	☐ Fan Systems ☐ Ductwork (existing to remain, altered or new)	This table is auto-filled with uneditable comments because of selection
or new)	Chillers	Ventilation	E. ADDITIONAL REMARKS
	Boilers	☐ Zonal Systems/ Terminal Boxes	This table includes remarks made by the permit applicant to the Author
			F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)  Space Conditioning System Information
			01 02 System Name Quantity 5
			HP-3 6
Registration Number:  CA Building Energy Efficiency Standards - 2022 Nonresidential Co	Generated Date/Time:  proppliance Report Version: 2022.0.000	Documentation Software: Energy Code Ace  Compliance ID: 105868-0523-0002	Registration Number:  CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E	Mechanical Systems  CERTIFICATE OF COMPLIANCE
Project Name: Parkview ES - ReloS 21,23,24,26,27,30	Report Page:  Date Prepared:	(Page 5 of 7) 2023-05-04T18:50:04-04:00	Project Name: Parkview ES - ReloS 21,23,24,26,27,30
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M. COOLING TOWERS			Q. MANDATORY MEASURES DOCUMENTATION LOCATION
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N. DECLARATION OF REQUIRED CERTIFICATES OF INS	TALLATION		Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block
		ne changed, please explain why in Table E Additional Remarks.	03 Mandatory Meas
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This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in

Wet System Component

☐ Water Economizer

Pumps

05 Total Unconditioned Floor Area

06 # of Stories (Habitable Above Grade)

CALIFORNIA ENERGY COMMISSION

2023-05-04T18:32:52-04:0

Dry System Components

☐ Air Economizer

☐ Electric Resistance Heat

STATE OF CALIFORNIA

Project Address:

Mechanical Systems

A. GENERAL INFORMATION

03 Occupancy Types Within Project:

01 Project Location (city) 02 Climate Zone

• Relocatable Public School

B. PROJECT SCOPE

path outlined in 140.4, or 141.0(b)2 for alterations.

140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

Air System(s

Project Name: Parkview ES - Relo 20 & 22

CERTIFICATE OF COMPLIANCE

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O1 O2 O3 O4 O5 O6 System Name Quantity System Serving System Status Space Type Utilizing Recovered Heat HP-3 6 Single zone Alteration   G. PUMPS This section does not alleding Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 105868-0523-0002 Schema Version: rev 20220101 Report Generated: 2023-05-04 15:50:08  F. CALIFORNIA CALIFORNIA CALIFORNIA ENERGY COMMISSION Nancical Systems  CALIFORNIA E	F CALIFORNIA  hanical Systems  ICATE OF COMPLIANCE  I Name: Parkview ES - ReloS 21,23  MPLIANCE RESULTS  C will indicate if the project data in COMPLY" or "COMPLIES with Except 100,1, 170.2, 140.4(k), 170.2(c)41  D.1, O.2, O.4, 170.2(c)41  CEPTIONAL CONDITIONS  Table is auto-filled with uneditable of Control of the Cont	input into the complicational Conditions" respectively 140.4(c), 140.4(e), 170.2(c) (See Table H)  Mandatory Mea	sonce document in the sefer to Table D., of System Controls 110.2, 120.2, 140.4(f), 170.2(c) (See Table I) O Yes Issures Complian of selections made	AND V 12 (S AND ce (See Ta	Report Version chema Version chema Version ver	ort Page: Prepared  AND  (S AND  etails)	d: requirement. ompliant for 06 ferminal Box Controls 140.4(d), 170.2(c)4B See Table K)	AND	Distribution 120.3, 140.4(I), 160.2, 160.3 (See Table L)	AND	CALIFO  CALIFO  CALIFO  Cooling 110.2	ORNIA EN  2023-  T. If this ta	0: 105858-052 2023-05-04 1: NERGY COMN NRCC (Pag 05-04T18:50:0	3-0002 5:32:55 MISSION C-MCH-E e 2 of 7) 04-04:00	A. The biplans 5. I will a inspecial special s	and specific insure that attions. I und in remain and specific in the specific
G. PUMPS This section does not approximate tration Number:  Generated Date/Time:  Documentation Software: Energy Code Ace Registration Number:  idling Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101  F CALIFORNIA CALIFORNIA ENERGY COMMISSION RECHANCE TAKE OF COMPLIANCE TO MEDIANCE TO	F CALIFORNIA  hanical Systems  ICATE OF COMPLIANCE  It Name: Parkview ES - ReloS 21,23  MPLIANCE RESULTS  C will indicate if the project data in COMPLY" or "COMPLIES with Except 21,23  Temmary 0.1, AND Pumps 140.4(k), 170.2(c)41 0.2, 0.4, 170.2(c)41 0.4, 170.2(c)41 0.5  CEPTIONAL CONDITIONS  Table is auto-filled with uneditable of the condition	input into the complicational Conditions" respectively a special complete and a special conditions and a special conditions and a special complete and a special	sonce document in the sefer to Table D., of System Controls 110.2, 120.2, 140.4(f), 170.2(c) (See Table I) O Yes Issures Complian of selections made	AND V 12 (S AND ce (See Ta	Report Version chema Version chema Version ver	ort Page: Prepared  AND  (S AND  etails)	d: requirement. ompliant for 06 ferminal Box Controls 140.4(d), 170.2(c)4B See Table K)	AND	Distribution 120.3, 140.4(I), 160.2, 160.3 (See Table L)	AND	CALIFO  CALIFO  CALIFO  Cooling 110.2	ORNIA EN  2023-  T. If this ta	0: 105858-052 2023-05-04 1: NERGY COMN NRCC (Pag 05-04T18:50:0	3-0002 5:32:55 MISSION C-MCH-E e 2 of 7) 04-04:00	A. The biplans 5. I will of inspect Responsible Design Company: Address: City/State/Zip:  Registration No. CA Building Enc. STATE OF CALIFOR Mechanica CERTIFICATE OF Project Name:  F. HVAC SYST Dry System Eq. 01  Name or Item Tag  HP-3  **FOOTNOTES: 140.4(a) and 1 **It is common if item and	and specific insure that attions. I und inner Name:  al Syste  COMPLIA  Parkvie  EM SUN  uipment  Tables  Luipment  Complia  practice to is heating jurisi in ving jurisi i
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Compliance ID: 105868-0523-0002

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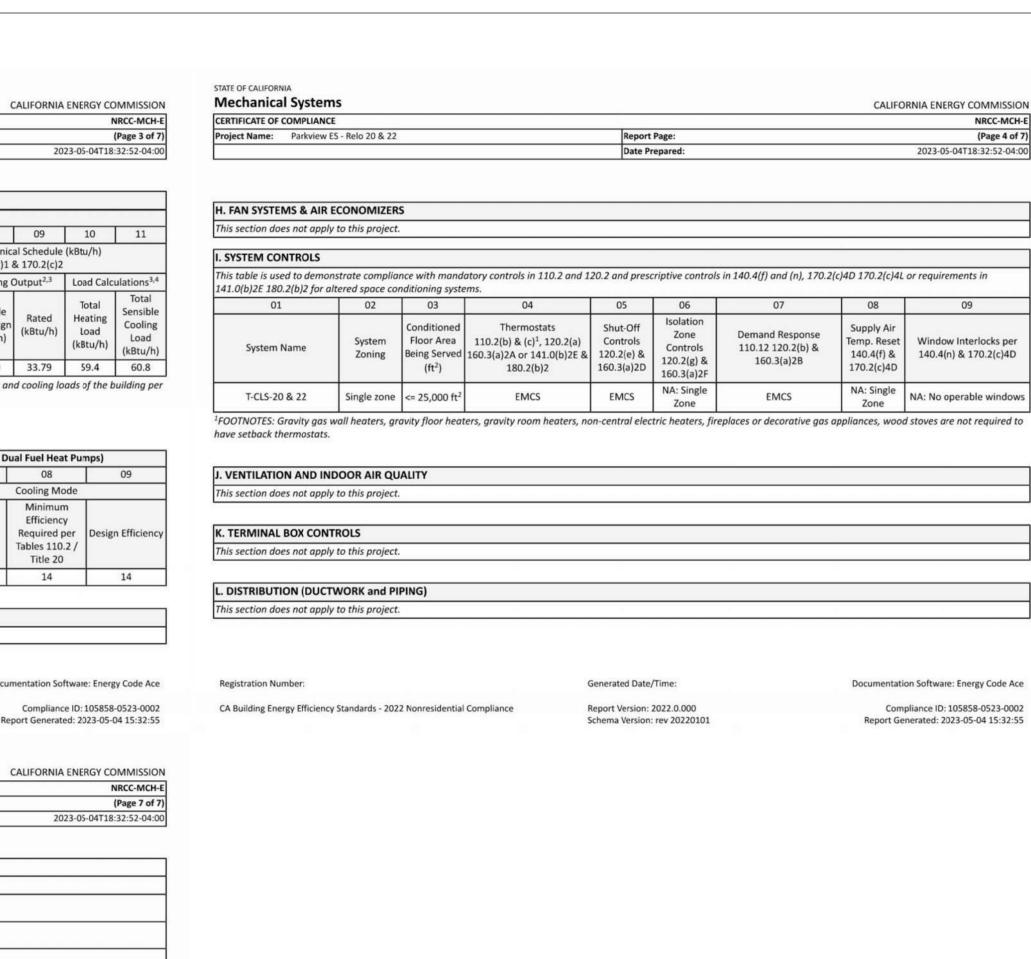
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

	SUMMARY (DRY & WET ment Sizing (includes air co	SYSTEMS)										
	ment sizing (mendes an co	nditioners, con	densers, heat	pumps, Vi	RF, furna	ices and u	ınit heat	ers and DOAS sy	ystems)			
	02		03		_	04	05	06 Equipmen	07 nt Sizing pe		09 cal Schedule	
	Equipment Category per	I Constitution		<u> </u>		lest Size			140.4(a&b)	, 170.2(c)1	& 170.2(c)2 Output <sup>2,3</sup>	
Name or Item . Tag	Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Ty	pe per Tables Title 20	110.2 and	140.4	ilable <sup>1</sup> 4(a) and	Per Des		Supp. Heating	Sensible	Pated	To
					170	).2(c)1	(kBtu/		Output (kBtu/h)	Per Design (kBtu/h)	(kBtu/h)	Lo (kB
HP-R1	Unitary Heat Pumps		oled, pkg (1pha		1	Yes	33	33	0	33.79	33.79	5
40.4(a) and 170.2	ipment shall be the smallest 2(c)1. Healthcare facilities ar ctice to show rated output c	re excepted.									nd cooling lo	oads o
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Ory System Equip	ment Efficiency (other than		inal Air Condit	ioners (PT/	AC) and	Package T	erminal		_			at Pun
01	02		03	04		ng Mode		06		07	08 Cooling M	
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CA Building Energy  STATE OF CALIFORNIA  Mechanical S  CERTIFICATE OF COI  Project Name:  F. HVAC SYSTEM  Dry System Equip  O1  Name or Item  Tag  HP-3  FOOTNOTES: Equipment is has a Authority Having  Dry System Equip  O1  Name or Item  Tag  HP-3  G. PUMPS  This section does in  HP-3  CERTIFICATE OF CALIFORNIA  Mechanical S  CERTIFICATE OF COI  Project Name:  FOOCUMENTATION  CERTIFICATE OF COI  Project Address:  DOCUMENTATION  CERTIFICATE OF COI  Project Name:  FOOCUMENTATION  CERTIFICATE OF COI  Project Name:  FOOCUMENTATION  CERTIFICATE OF COI  This section does in  CERTIFICATE OF COI  This section does in  CERTIFICATE OF COI  This section does in  This section does in  CERTIFICATE OF COI  This section does in  Thi	Systems  MPLIANCE Parkview ES - ReloS 21,23,24,26  I SUMMARY (DRY & WET ment Sizing (includes air co	SYSTEMS) Inditioners, con  Equipment Ty  Air-coc  size, within the re excepted. repacity on the extepted and load and calculations of the complete of the comp	of California:  ue and correct.  of california:  of california:  ue and correct.  of california:  o	pumps, Vi	RF, furna  Smal Ava 140.4 170  AC) and Heat Cy Unit  PF  Senerated Seport Very Unit  Complete Seport Very Unit Compl	eport Page late Prepar  lest Size lable  (a) and (b) 2(c)1  Yes equipmen  ling output y, leave he and 170.2  Package T  Offing Mode  Mining Efficia Requir Tables: Title 8  I Date/Time Signature Date  EA/ HERS Cellaboration  I page or the building of the	e: red:  red	ers and DOAS sy    O6     Equipment   Heating Output   Heating Output   43     ccessary to meet   from specification and load by   Heat Pumps (P1     O6     Design Efficient   8     Signature:   Identification (if application application provided on the state of the building application and the state of the state of the building application and the state of the sta	or nt Sizing per 140.4(a&b) 240.4(a&b) 22.3  Supp. Heating Output (kBtu/h) 0 the design on sheet to lank.  THP), DX-D consider the lank of	08 er Mechani 1, 170.2(c)1 Cooling Sensible Per Desig (kBtu/h) 46.5 In heating of ables.  OAS and D  O7  ency Unit  EER  Docc Ref	CALIFORNIA  20  09  cal Schedule 8 170.2(c)2 Coutput <sup>2,3</sup> Rated (kBtu/h)  46.5  and cooling Id  Winimum Efficience Required Tables 110 Title 20  14  CALIFORNIA  20  CALIFORNIA  20  Compliance of the decements, where enforcements are considered to the enforcement of the enforcements of the enforcement of the enforcement of the enforcement of the enforcements of the enforcement of the e	at Pun  ode  m  ce (kBtu  lu  (kB  lu  kB  lu  k

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Report Version: 2022.0.000

Schema Version: rev 20220101



STATE OF CALIFORNIA **Mechanical Systems** 

CERTIFICATE OF COMPLIANCE

I. SYSTEM CONTROLS

System Name

have setback thermostats.

Registration Number:

K. TERMINAL BOX CONTROLS

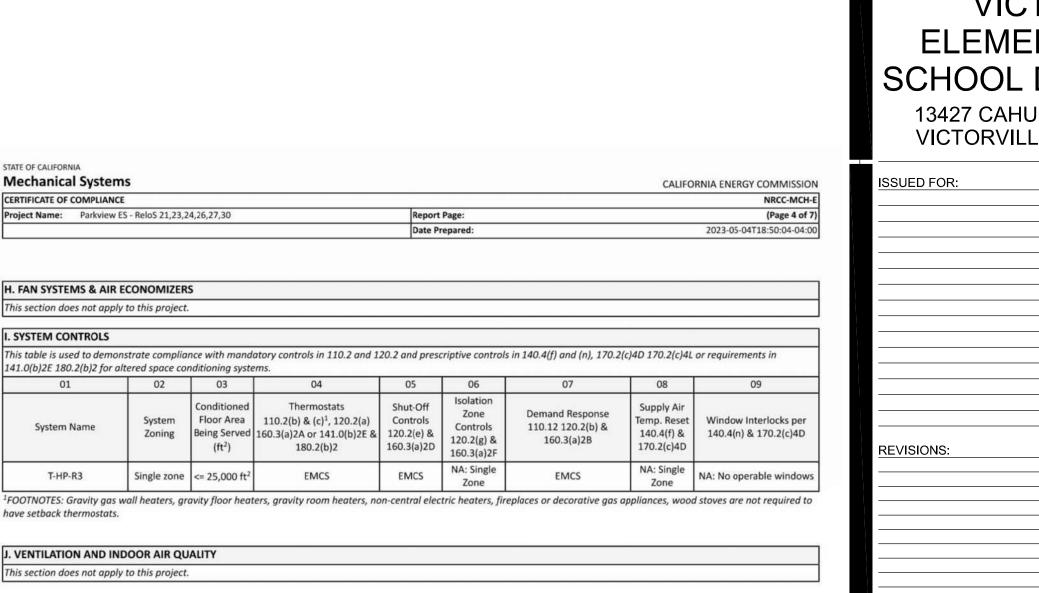
is section does not apply to this project.

.. DISTRIBUTION (DUCTWORK and PIPING) his section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Documentation Software: Energy Code Ace

Compliance ID: 105868-0523-0002 Report Generated: 2023-05-04 15:50:08



Documentation Software: Energy Code Ace

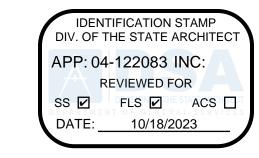
Compliance ID: 105868-0523-0002

Report Generated: 2023-05-04 15:50:08

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Report Version: 2022.0.000

Schema Version: rev 20220101



(Page 4 of 7)



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Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884-3834 PEI #600.030

**PARKVIEW** ELEMENTARY 13427 CAHUENGA ROAD VICTORVILLE, CA 92395

REGISTRATION/SIGNATURE:

WD PROJ. # DRAWN BY: CHECKED DATE

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P:\600-Westgroup Designs\600-030\_VESD\_17\_Sites\_HVAC\_Replacement\Drawings\Park View ES\Drawings\Mechanical\M0-4.4.dwg Jul 24, 2023 - 1:45pm iggy

path outlined in 140.4, or 141.0(b)2 for alterations.  Project Name: Parkview ES - ReloS 28,31THRU35,40,41 Report Page: (Page 1 of 7)	Date Prepared: 2023-05-04T
Project Address: Date Prepared: 2023-05-04T18:41:54-04:00	
A. GENERAL INFORMATION  Of Project Location (site)  Of Total Society and Store Area  7590	C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says
01 Project Location (city)     Victorville     04 Total Conditioned Floor Area     7680       02 Climate Zone     14     05 Total Unconditioned Floor Area     0	NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.  O1
3 Occupancy Types Within Project: 06 # of Stories (Habitable Above Grade) 1  Relocatable Public School	System Summary Pumps AND Pumps AND Economizers AND Controls AND AND Distribution AND
	110.1, AND 140.4(k), 140.4(c), 140.4(c), 110.2, 120.2, 120.1, 160.2 140.4(d), 140.4(l), 140.4(l), 110.2(e)2 Comp
PROJECT SCOPE  Is table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in	170.2(c) 170
0.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.  01  02  03	(See Table F)         (See Table G)         (See Table H)         (See Table I)         (See Table J)         (See Table K)         (See Table L)         (See Table M)           Yes         AND         AND         AND         AND         AND         AND         AND         AND         C
Air System(s)  Wet System Components  Dry System Components  Air Economizer	Mandatory Measures Compliance (See Table Q for Details)  COMPLIES
☑ Cooling Air System     ☐ Pumps     ☐ Electric Resistance Heat	D. EXCEPTIONAL CONDITIONS  This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
Mechanical Controls (existing to remain, altered	This table is data-filled with differences because of selections made of data entered in tables alroughout the form.
or new)  Chillers	E. ADDITIONAL REMARKS  This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.
Boilers Zonal Systems/ Terminal Boxes	F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
	Space Conditioning System Information
	01     02     03     04     05     06       System Name     Quantity     System Serving     System Status     Space Type     Utilizing Reco
	T-HP-R2 8 Single zone Alteration
Registration Number: Documentation Software: Energy Code Ace	Registration Number: Generated Date/Time: Documentation Software: En
Report Version: 2022.0.000 Compliance ID: 105862-0523-0002 Schema Version: rev 20220101 Compliance ID: 205862-0523-0002 Report Generated: 2023-05-04 15:41:58	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 1058 Schema Version: rev 20220101 Report Generated: 2023-0
ATE OF CALIFORNIA	STATE OF CALIFORNIA
lechanical Systems  CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E	Mechanical Systems  CALIFORNIA ENERGY  CERTIFICATE OF COMPLIANCE
Oject Name:         Parkview ES - ReloS 28,31THRU35,40,41         Report Page:         (Page 5 of 7)           Date Prepared:         2023-05-04T18:41:54-04:00	Project Name:         Parkview ES - ReloS 28,31THRU35,40,41         Report Page:           Date Prepared:         2023-05-041
. COOLING TOWERS	Q. MANDATORY MEASURES DOCUMENTATION LOCATION  This table is used to indicate where mandatory massures are documented in the plan set or construction documentation.
ais section does not apply to this project.	This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.  01 02
. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block  No  Plan sheet or construction document I
elections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.  These documents must be provided to the building inspector during construction and can be found online at	03 04  Mandatory Measure Plan sheet or construction document
tps://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/  Form/Title	Heating Equipment Efficiency per 110.1 M0-1.2  Cooling Equipment Efficiency per 110.1 M0-1.2
RCI-MCH-01-E - Must be submitted for all buildings	Furnace Standby Loss Control per 110.2(d)  NA  Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)  NA
. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	<u> </u>
elections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. hese documents must be provided to the building inspector during construction and can be found online at	
ttps://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/  Systems/Spaces To Be Field	
Form/Title Verified  RCA-MCH-18-A Energy Management Control Systems  T-HP-R2	
here are no NRCV forms required for this project.	
	STATE OF CALIFORNIA
Mechanical Systems  ERTIFICATE OF COMPLIANCE  In this document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive ath outlined in 140.4, or 141.0(b)2 for alterations.	STATE OF CALIFORNIA  Mechanical Systems  CERTIFICATE OF COMPLIANCE  Project Name: Parkview MP  Report Page:
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Alechanical Systems  EXTIFICATE OF COMPLIANCE In standard of modern or mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attention of the permit application and are demonstrating compliance using the prescriptive attentio	STATE OF CALIFORNIA  Mechanical Systems  CALIFORNIA ENERGY  CERTIFICATE OF COMPLIANCE  Project Name: Parkview MP  Report Page:  Date Prepared: 2023-05-04T  C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table say
Alechanical Systems  CALIFORNIA ENERGY COMMISSION  RETIFICATE OF COMPLIANCE  In Succession of the permit application and are demonstrating compliance using the prescriptive and outlined in 140.4, or 141.0(b)2 for alterations.  Report Page:  CALIFORNIA ENERGY COMMISSION  NECC-MCH-E  NRCC-MCH-E  NRCC-MCH	STATE OF CALIFORNIA  Mechanical Systems  CERTIFICATE OF COMPLIANCE  Project Name: Parkview MP  Report Page:  Date Prepared: 2023-05-04T   C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table say NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.  01 02 03 04 05 06 07 08
Alifornical Systems  ExtriFicate of COMPLIANCE In Section (Succession of Compliance)  ExtriFicate of Compliance of Compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive and outlined in 140.4, or 141.0(b)2 for alterations.  Figure 1 Address:  Report Page: Parkview MP Report Page: Parkview MP Date Prepared:  CENERAL INFORMATION  Project Location (city) Victorville Victorvil	CERTIFICATE OF COMPLIANCE Project Name: Parkview MP Report Page:  Date Prepared: 2023-05-04T  C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table so NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.  O1
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This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive

CALIFORNIA ENERGY COMMISSION

STATE OF CALIFORNIA

Mechanical Systems

CERTIFICATE OF COMPLIANCE

					CALIFORNIA	NERGY COMMISSION	Mechanical	Systems							CALIFORN	A ENEDCY	COMMISSIC
Mechanical Systems ERTIFICATE OF COMPLIANCE					CALIFORNIA	NRCC-MCH-E	CERTIFICATE OF CO								CALIFORN	IA ENERGY	NRCC-MCH
Project Name: Parkview ES - ReloS 28,31THRU35,40,41	P	eport Page:				(Page 2 of 7)		Parkview ES - ReloS 28,31THRU3	35,40,41		Report Page	:					(Page 3 of
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OT COMPLY" or "COMPLIES with Exceptional Conditions" refer						Provided Hotel Chail Prints (1999) Haller Charles	01	02	03		04	05	06 Equipme		08 09 echanical Schedu	lo (kBtu/h)	11
01 02 03 System	04 05	06	07		08	09					c 11 c:			140.4(a&b), 170	).2(c)1 & 170.2(c	)2	
Summary 110.1 AND Pumps AND Economizers AND	System Controls AND Warnington	Termina					Name or Item	Equipment Category per	Equipment Type per Tables	110.2 and	Smallest Size Available <sup>1</sup>	He	ating Output	t <sup>2,3</sup> C	ooling Output <sup>2,3</sup>	Load C	alculations
	AND Ventilation 120.1, 160 170.2(c)		(d), 140.4(	1),	Cooling Towers 110.2(e)2	Compliance Results	Tag	Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Title 20		140.4(a) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Heating Per	nsible Design Stu/h) Rated (kBtu/h	Total Heatin Load (kBtu/h	Loa
	(See Table I) (See Table				(See Table M)		T-HP-R2	Unitary Heat Pumps	Air-cooled, pkg (1ph	ase)	Yes	39	39	0 3	9.79 39.79	280.8	(kBtu/
Yes AND AND AND	Yes AND	AND	AND	AND		COMPLIES		ipment shall be the smallest									
Mandatory Measur	es Compliance (See Table Q fo	Details)		COM	PLIES			2(c)1. Healthcare facilities ar		aons of the a	esireo equipinen	t iiiie, neees	isary to mee.	ture design ned	ting and evening	rodus by th	building p
								ctice to show rated output co									
D. EXCEPTIONAL CONDITIONS								neating only, leave cooling ou g Jurisdiction may ask for load					it and load b	lank.			
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						3/1	01	02	03	04			06	07	08	ac r umps,	09
. ADDITIONAL REMARKS											Heating Mode				Cooling N	/lode	
This table includes remarks made by the permit applicant to the	Authority Having Jurisdiction.								10 =	T	Minir	num			Minim		
							Name or Item	Size Category			Effici				Efficier		
. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)							Tag	(Btu/h)	Condition ( °F)	Efficiency	Unit Require Tables 3		esign Efficien	cy Efficiency	Jnit Required Tables 11	The second secon	sign Efficie
pace Conditioning System Information									1.7		Title				Title 2		
01 02	03	04		05		06	T-HP-R2	<65,000		HSPF	8		8	SEER	14		14
System Name Quantity	System Serving	System Stat	us S	pace Type	Utilizi	ng Recovered Heat											
egistration Number: A Building Energy Efficiency Standards - 2022 Nonresidential Compli	ance Report Ver	Date/Time: rsion: 2022.0.000 ersion: rev 20220101			Compliance	ware: Energy Code Ace ID: 105862-0523-0002 d: 2023-05-04 15:41:58	Registration Numb	per: y Efficiency Standards - 2022 Nor	nresidential Compliance	Rep	nerated Date/Time port Version: 2022 ema Version: rev	.0.000			Complia Report Gener	nce ID: 1058	62-0523-000
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Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Registration Number:

STATE OF CALIFORNIA

**Mechanical Systems** 

CERTIFICATE OF COMPLIANCE

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Address: City/State/A		CEA/ HERS Certification Identification (if applicable):					
		CEA/ HERS Certification Identification (if applicable):					
RESPON	Zip:	Phone:					
	SIBLE PERSON'S DECLARATION STATEMENT						
certify the	following under penalty of perjury, under the laws of the State of California:						
manager and	The information provided on this Certificate of Compliance is true and correct.						
		e building design or system design identified on this Certificate of Compliance (responsible designer)					
3.		devices for the building design or system design identified on this Certificate of Compliance conform to the requirements					
4.	The building design features or system design features identified on this Certificate of Complianc plans and specifications submitted to the enforcement agency for approval with this building per	te are consistent with the information provided on other applicable compliance documents, worksheets, calculations, rmit application.					
5.		ple with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable ared to be included with the documentation the builder provides to the building owner at occupancy.					
Responsible	e Designer Name:	Responsible Designer Signature:					
Company:		Date Signed:					
Address:		License:					
City/State/2	Zip:	Phone:					

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Report Generated: 2023-05-04 15:41:58

Compliance ID: 105862-0523-0002

CALIFORNIA ENERGY COMMISSION

Documentation Software: Energy Code Ace

Documentation Software: Energy Code Ace

Report Generated: 2023-05-04 11:35:09

Compliance ID: 105582-0523-0004

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

2023-05-04T14:35:05-04:0

NRCC-MCH-E

(Page 3 of 8)

Registration Number:

STATE OF CALIFORNIA

Mechanical Systems

CERTIFICATE OF COMPLIANCE

H. FAN SYSTEMS & AIR ECONOMIZERS This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Space Condition	ing System Information											
01	01 02		03		04		05			06		
System f	Name Qua	ntity			System Status Alteration		Space Type		Utilia	zing Recove	red Heat	
AC-N	16	1										
Dry System Equi	pment Sizing (includes air co	nditioners, co	ndensers, heat pumps, VR	F, furnaces and u	unit heaters a	and DOAS s	ystems)				4	
01	02		03	04	05	06	07	08	09	10	11	
								r Mechanica ), 170.2(c)1 8		(kBtu/h)		
	Equipment Category per	Equipment Type per Tables 110.2 and Title 20		Smallest Size	Heating Output <sup>2,3</sup>		t <sup>2,3</sup>	Cooling Output <sup>2,3</sup>		Load Calculations <sup>3,</sup>		
	Tables 110.2, 140.4(a)2 and 170.2(c)3aii			Available <sup>1</sup> 140.4(a) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensib Coolin Load (kBtu/	
AC-M4	Furnace + AC		ed, single pkg + warm-air al furnace, gas-fired	Yes	100	100	0	64	64.7	85	72	
AC-M3	Furnace + AC		ed, single pkg + warm-air al furnace, gas-fired	Yes	88	88	0	48	48	75	40	
AC-M-1,2	Furnace + AC	The state of the s	ed, single pkg + warm-air al furnace, gas-fired	Yes	144	144	0	135	138	280	250	
AC-M5	Furnace + AC		ed, single pkg + warm-air al furnace, gas-fired	Yes	88	88	0	48	48	70	43	
AC-M6	Furnace + AC		ed, single pkg + warm-air al furnace, gas-fired	Yes	53.6	53.6	0	27.9	27.9	42	25	

140.4(a) and 170.2(c)1. Healthcare facilities are excepted. <sup>2</sup>It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

<sup>3</sup> If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank. <sup>4</sup> Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 105582-0523-0004 Report Generated: 2023-05-04 11:35:09
STATE OF CALIFORNIA  Mechanical Systems		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Parkview MP	Report Page:	(Page 7 of 8)
	Date Prepared:	2023-05-04T14:35:05-04:00

This table is used to indicate where mandatory measures are documented in the pla	an set or construction documentati	on.
01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03	04	
Mandatory Measure		Plan sheet or construction document location
Heating Equipment Efficiency per 110.1		M0-1.2
Cooling Equipment Efficiency per 110.1		M0-1.2
Furnace Standby Loss Control per 110.2(d)		0.75
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		NA NA

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

		NRCC-MCH
3,31THRU35,40,41 Rep	oort Page:	(Page 4 of
Dat	- December	2023-05-04T18:41:54-04:0
8		8,31THRU35,40,41 Report Page:  Date Prepared:

I. SYSTEM CONTROLS his table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems. Shut-Off System Floor Area Zoning Being Served 160.3(a)2A or 141.0(b)2E & 120.2(e) & 120.2(g) & 160.3(a)2F Demand Response Temp. Reset | Window Interlocks per System Name 110.12 120.2(b) & 140.4(f) & 140.4(n) & 170.2(c)4D 160.3(a)2B 170.2(c)4D NA: Single Zone NA: No operable windows Single zone <= 25,000 ft<sup>2</sup> **EMCS** EMCS **EMCS** <sup>1</sup>FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY				
This section does not apply to this project.				
K. TERMINAL BOX CONTROLS				
This section does not apply to this project.				
L. DISTRIBUTION (DUCTWORK and PIPING)				

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

Report Generated: 2023-05-04 15:41:58

Documentation Software: Energy Code Ace

Compliance ID: 105862-0523-0002

CALIFORNIA ENERGY COMMISSION

Documentation Software: Energy Code Ace

Compliance ID: 105582-0523-0004

Report Generated: 2023-05-04 11:35:09

2023-05-04T14:35:05-04:00

NRCC-MCH-E

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IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗌

APP: 04-122083 INC:

DATE: 10/18/2023



Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884-3834 PEI #600.030

**PARKVIEW** ELEMENTARY 13427 CAHUENGA ROAD VICTORVILLE, CA 92395

yatem Equip	ment Efficiency (other than Package Termin	nal Air Conditi	oners (PTAC) and I	Package Terminal	Heat Pumps (PTHP	), DX-DOAS and D	oual Fuel Heat Pu	mps)
01	02	03	04	05	06	07	08	09
			Heati	ng Mode	Cooling Mode			
ne or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
AC-M4	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	EER SEER	11 14	11.2 15
AC-M3	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	EER SEER	11 14	11 14
C-M-1,2	>=135kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	EER IEER	10.8 12.2	11 14
AC-M5	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	EER SEER	11 14	11 14
AC-M6	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	EER SEER	11 14	11 14

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 105582-0523-0004
	Schema Version: rev 20220101	Report Generated: 2023-05-04 11:35:09
TATE OF CALIFORNIA		
Mechanical Systems		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Parkview MP	Report Page:	(Page 8 of 8)
Project Address:	Date Prepared:	2023-05-04T14:35:05-04:00



I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable

Generated Date/Time:

Report Version: 2022.0.000

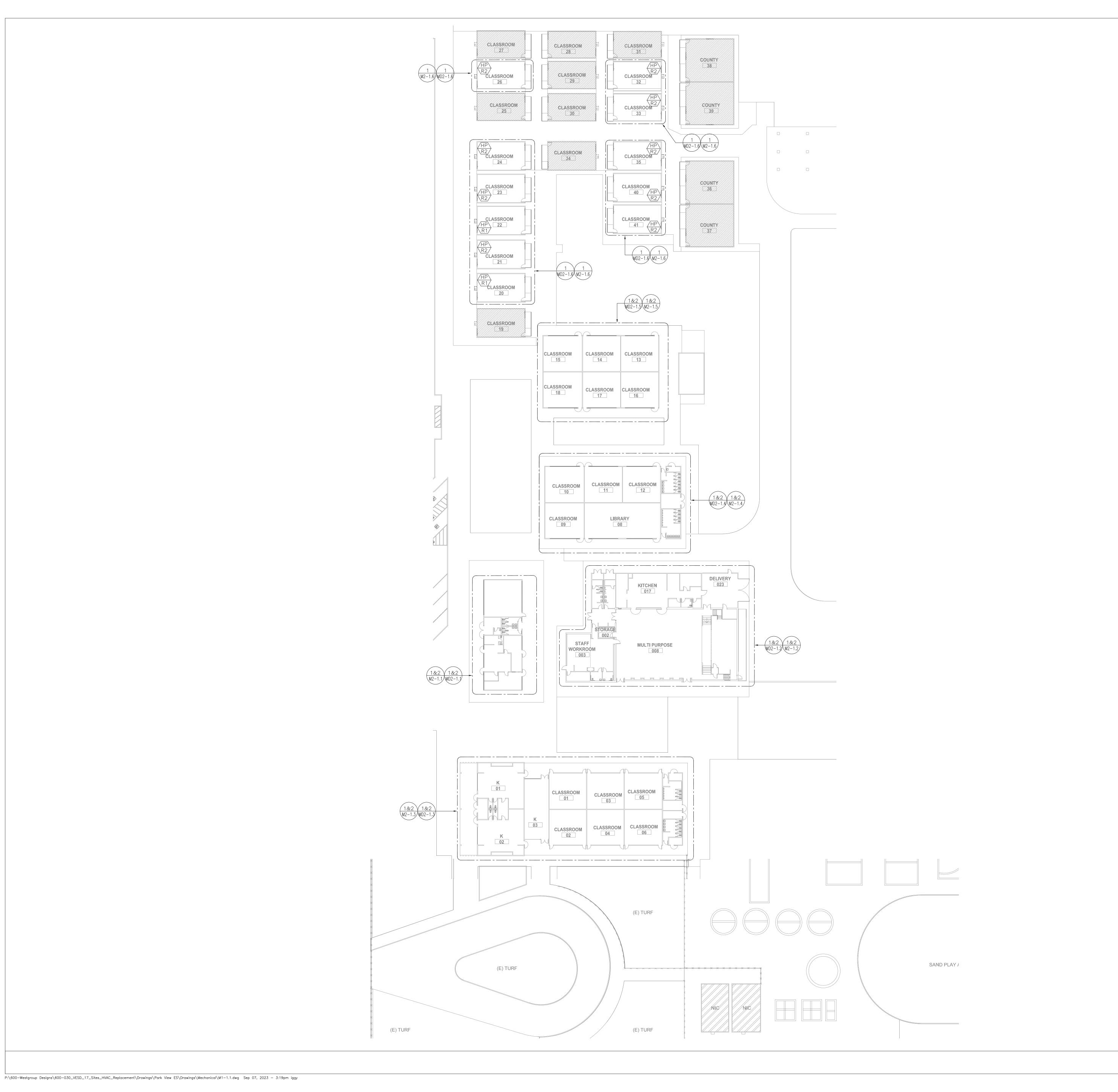
Schema Version: rev 20220101

inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

REGISTRATION/SIGNATURE:

TITLE 24

WD PROJ. # DRAWN BY: CHECKED DATE







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PARKVIEW
ELEMENTARY
SCHOOL
VICTOR
ELEMENTARY
SCHOOL DISTRICT
13427 CAHUENGA ROAD
VICTORVILLE, CA 92395

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REVISIONS:			
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REGISTRATION/SIGNATURE:

PROFESS/ONA

M. PLANTING

No. M 29925

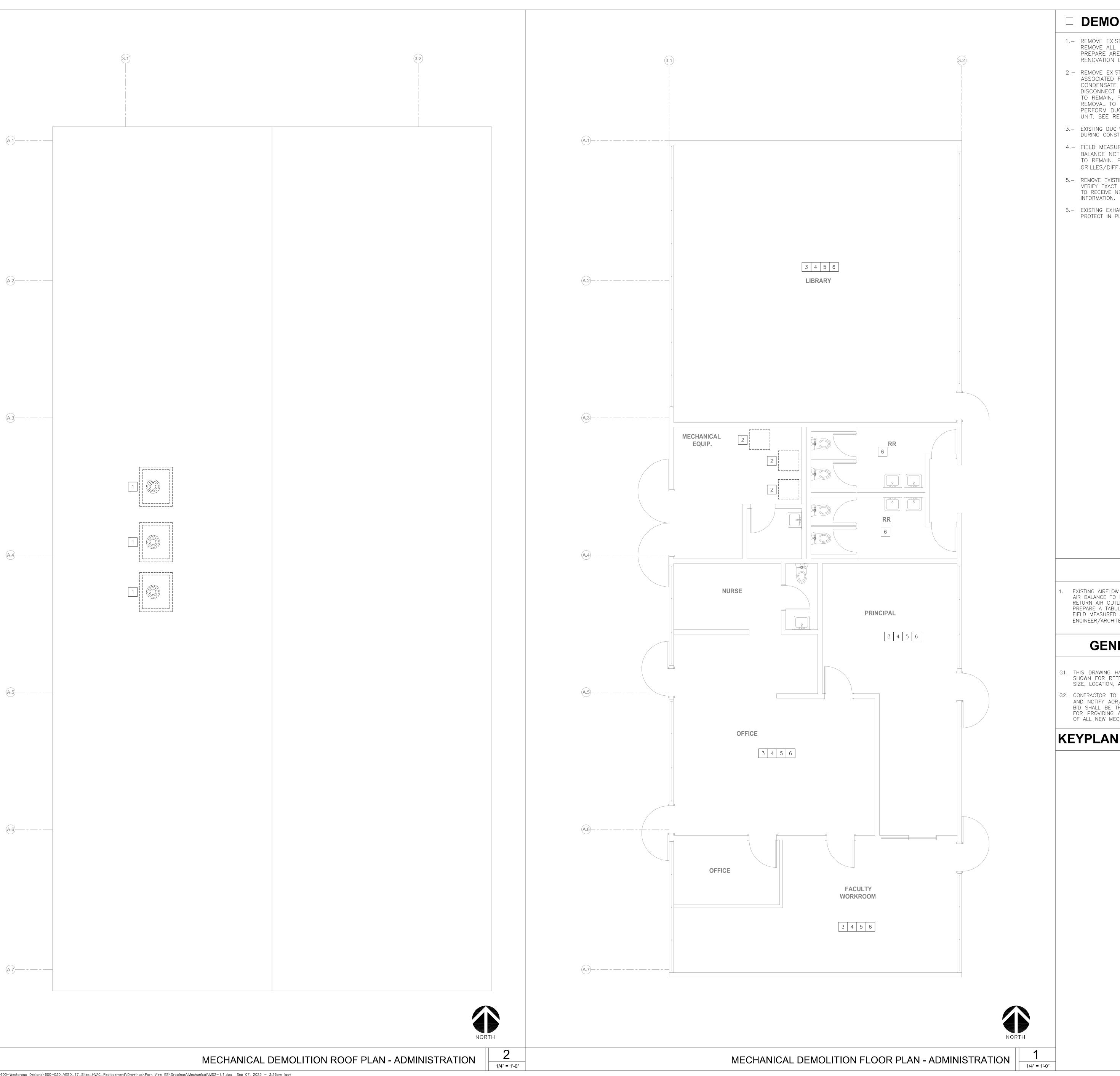
Exp. 06-30-2024

SHEET TITLE

MECHANICAL SITE PLAN

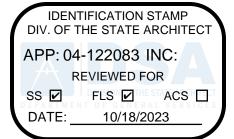
M1-1.

WD PROJ. # DRAWN BY: CHECKED DATE 07/24/



#### □ DEMOLITION NOTES

- 1.- REMOVE EXISTING ROOFTOP CONDENSER UNIT. DISCONNECT ALL UTILITIES AND REMOVE ALL REFRIGERANT PIPING. REMOVE EXISTING ROOF UNIT SUPPORT. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP CONDENSER UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- REMOVE EXISTING INDOOR GAS FURNACE UNIT INCLUDING COOLING COIL AND ASSOCIATED REFRIGERATION LINES. DISCONNECT ALL UTILITIES AND REMOVE ALL CONDENSATE DRAIN PIPING. MODIFY GAS PIPING FOR RECONNECTION. DISCONNECT FLUE VENT AND MODIFY FOR RECONNECTION. EXISTING PLATFORM TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION. PREPARE ARE OF REMOVAL TO RECEIVE NEW INDOOR GAS FURNACE UNIT AND COOLING COIL. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW FURNACE UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 3.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 4.- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 5.- REMOVE EXISTING THERMOSTAT AND ASSOCIATED ACCESSORIES (1 PER UNIT), FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL
- 6.- EXISTING EXHAUST AIR DUCTWORK AND SIDEWALL/CEILING DIFFUSERS TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.





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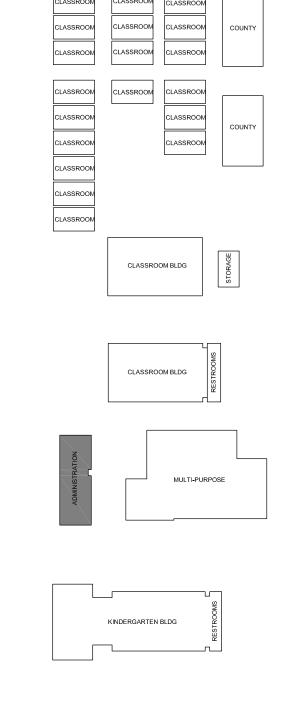
#### AIR BALANCE NOTE

EXISTING AIRFLOW RATES SHOWN ARE FOR REFERENCE ONLY. PERFORM PRE-DEMOLITION AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE FIELD MEASURED AIR QUANTITY VALUES. SUBMIT DRAWINGS AND REPORT TO ENGINEER/ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF DEMOLITION WORK.

#### **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.

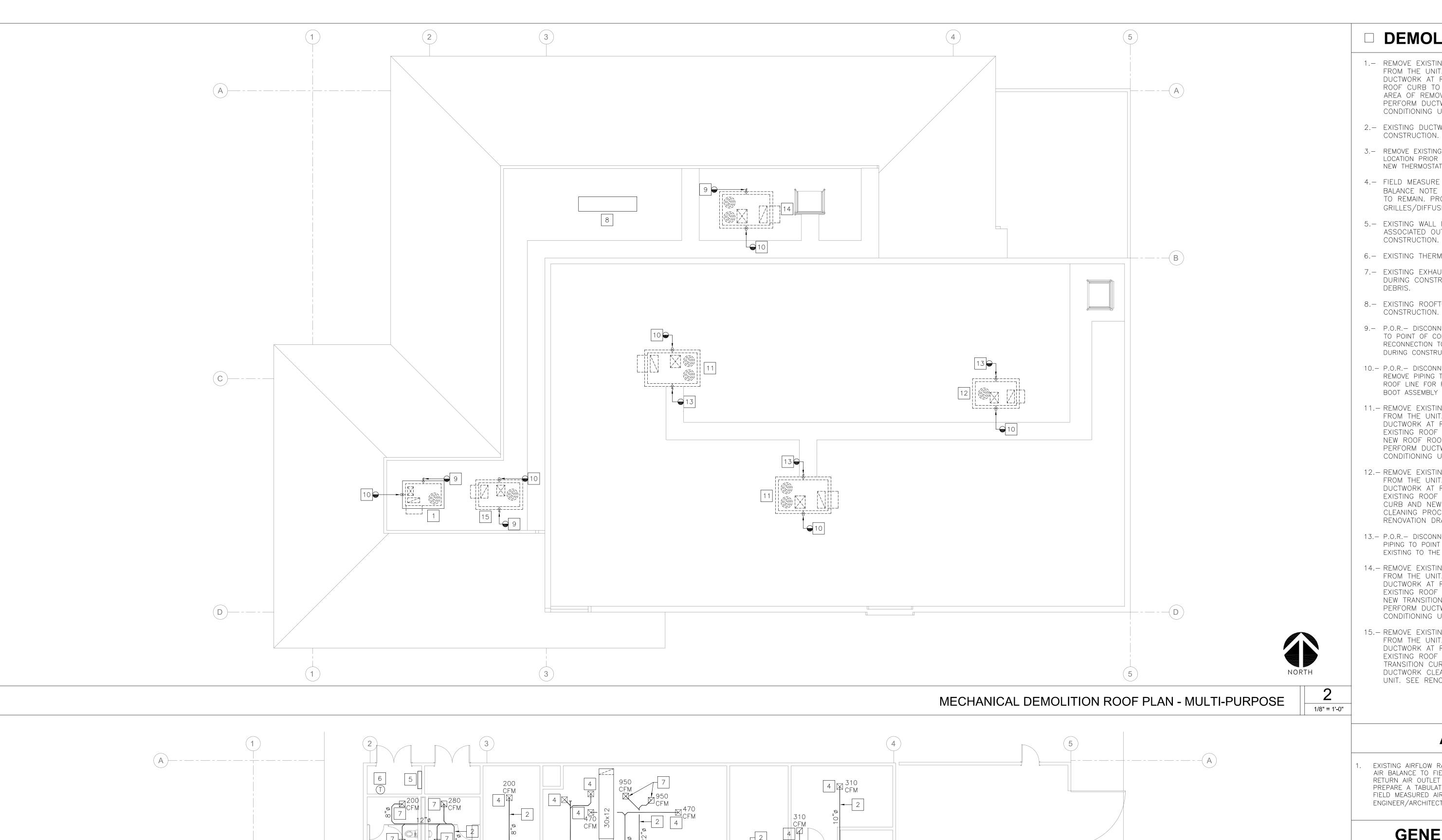
#### **KEYPLAN**





MECHANICAL **DEMOLITION FLOOR** PLANS -**ADMINISTRATION** 

WD PROJ. # DRAWN BY: CHECKED DATE



DELIVERY 670 STORAGE CFM **MULTI PURPOSE** 

#### □ DEMOLITION NOTES

- 1.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- EXISTING DUCTWORK AND ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING
- 3.- 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.
- 4.- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 5.- EXISTING WALL MOUNTED INDOOR SPLIT-AIR CONDITIONER UNIT AND ASSOCIATED OUTDOOR UNIT ON ROOF TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 6.- EXISTING THERMOSTAT TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. 7.- EXISTING EXHAUST AIR CEILING DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL DIFFUSERS AND REMOVE ALL DIRT AND
- 8.- EXISTING ROOFTOP MAKE-UP AIR UNIT TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 9.- P.O.R.- DISCONNECT EXISTING GAS PIPING FROM A/C UNIT AND REMOVE PIPING UP TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING GAS PIPING BOOT ASSEMBLY DURING CONSTRUCTION).
- 10.- P.O.R.- DISCONNECT EXISTING CONDENSATE DRAIN PIPING FROM A/C UNIT AND REMOVE PIPING TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING CD PIPING BOOT ASSEMBLY DURING CONSTRUCTION).
- 11.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. REMOVE EXISTING ROOF CURB AND ISO CURB. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOF ROOF CURB, ISO CURB AND NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 12.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. REMOVE EXISTING ROOF CURB. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOF CURB AND NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 13.- P.O.R.- DISCONNECT AND REMOVE EXISTING GAS PIPING FROM A/C UNIT AND REMOVE PIPING TO POINT OF CONNECTION AT ROOF LINE. REPAIR AND PATCH ROOF TO MATCH EXISTING TO THE SATISFACTION OF THE OWNER/ARCHITECT.
- 14.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. REMOVE EXISTING ROOF CURB AND ISO CURB. PREPARE AREA OF REMOVAL TO RECEIVE NEW TRANSITION ISO CURB AND NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 15.— REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. REMOVE EXISTING ROOF CURB. PREPARE AREA OF REMOVAL TO RECEIVE NEW TRANSITION CURB AND NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.

#### IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-122083 INC: REVIEWED FOR SS ✓ FLS ✓ ACS □



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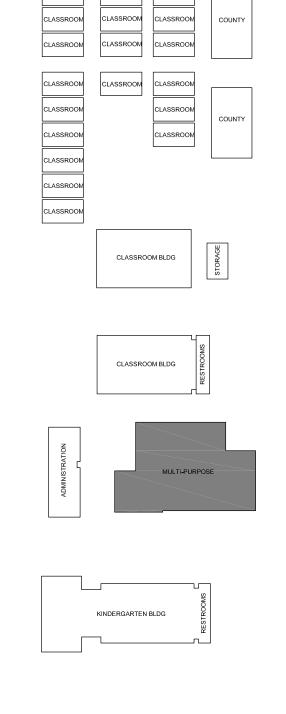
#### **AIR BALANCE NOTE**

AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE FIELD MEASURED AIR QUANTITY VALUES. SUBMIT DRAWINGS AND REPORT TO ENGINEER/ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF DEMOLITION WORK.

#### **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.
- AND NOTIFY AOR/MEOR OF ANY DISCREPANCIES. DISCREPANCIES NOT NOTED PRIOR T 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.

#### **KEYPLAN**





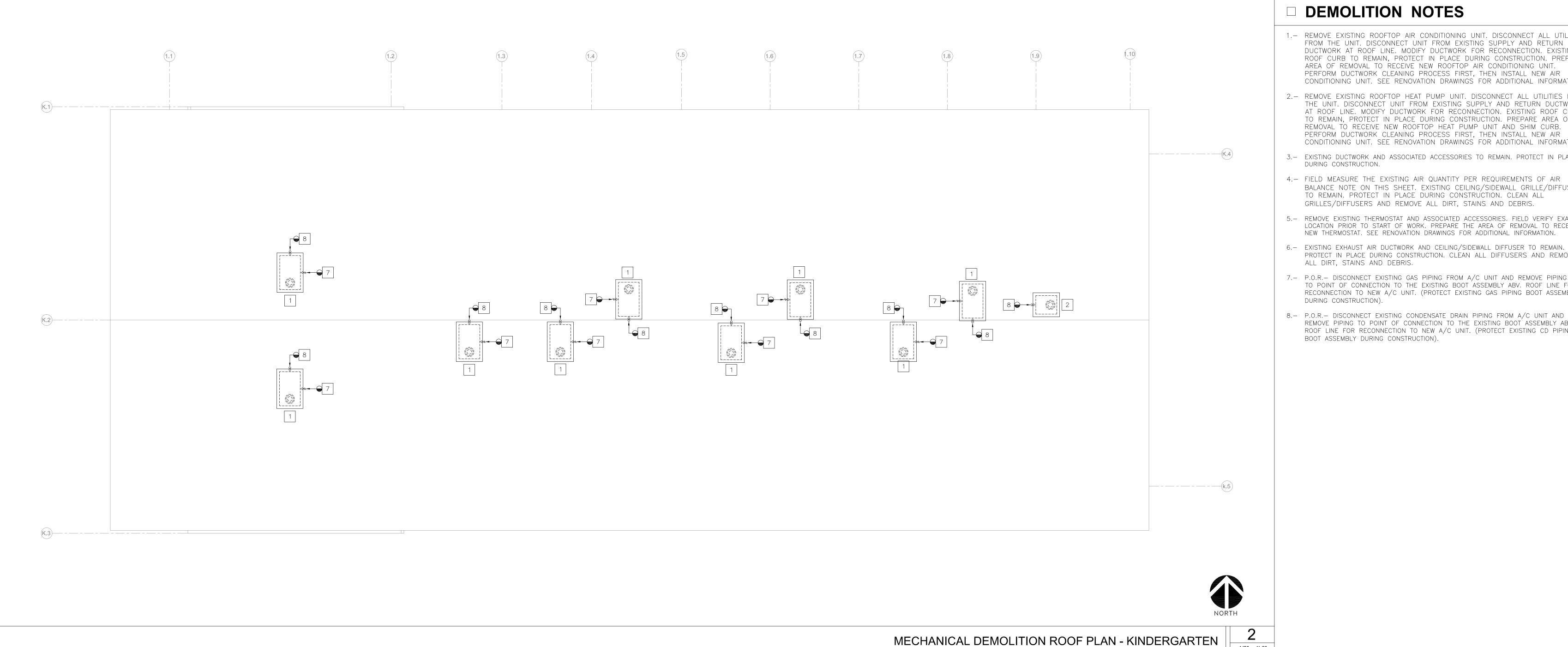
**MECHANICAL DEMOLITION PLANS MULTI-PURPOSE** 

WD PROJ. # | DRAWN BY: | CHECKED | DATE

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MECHANICAL DEMOLITION FLOOR PLAN - MULTI-PURPOSE



CLASSROOM

CLASSROOM

CLASSROOM

□ DEMOLITION NOTES

1.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.

2.- REMOVE EXISTING ROOFTOP HEAT PUMP UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP HEAT PUMP UNIT AND SHIM CURB. PERFORM DUCTWORK CLEANING PROCESS FIRST. THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.

3.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.

5.- 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.

6.- EXISTING EXHAUST AIR DUCTWORK AND CEILING/SIDEWALL DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.

7.- P.O.R.- DISCONNECT EXISTING GAS PIPING FROM A/C UNIT AND REMOVE PIPING UP TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING GAS PIPING BOOT ASSEMBLY DURING CONSTRUCTION).

8.- P.O.R.- DISCONNECT EXISTING CONDENSATE DRAIN PIPING FROM A/C UNIT AND REMOVE PIPING TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING CD PIPING BOOT ASSEMBLY DURING CONSTRUCTION).

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122083 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌



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#### AIR BALANCE NOTE

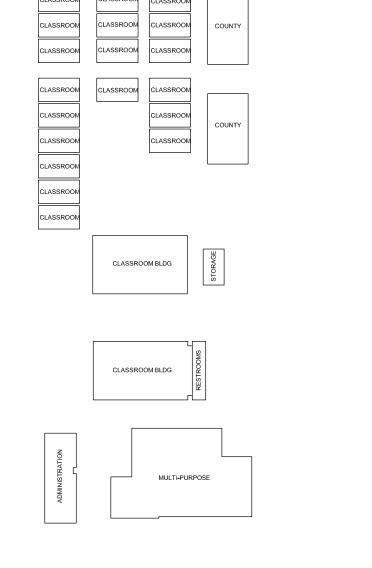
EXISTING AIRFLOW RATES SHOWN ARE FOR REFERENCE ONLY. PERFORM PRE-DEMOLITION AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE FIELD MEASURED AIR QUANTITY VALUES. SUBMIT DRAWINGS AND REPORT TO ENGINEER/ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF DEMOLITION WORK.

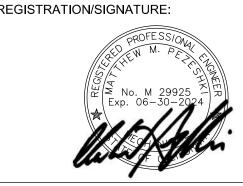
#### **GENERAL DEMOLITION NOTES**

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.

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.

#### **KEYPLAN**





**MECHANICAL** 

**DEMOLITION PLANS -KINDERGARTEN** 

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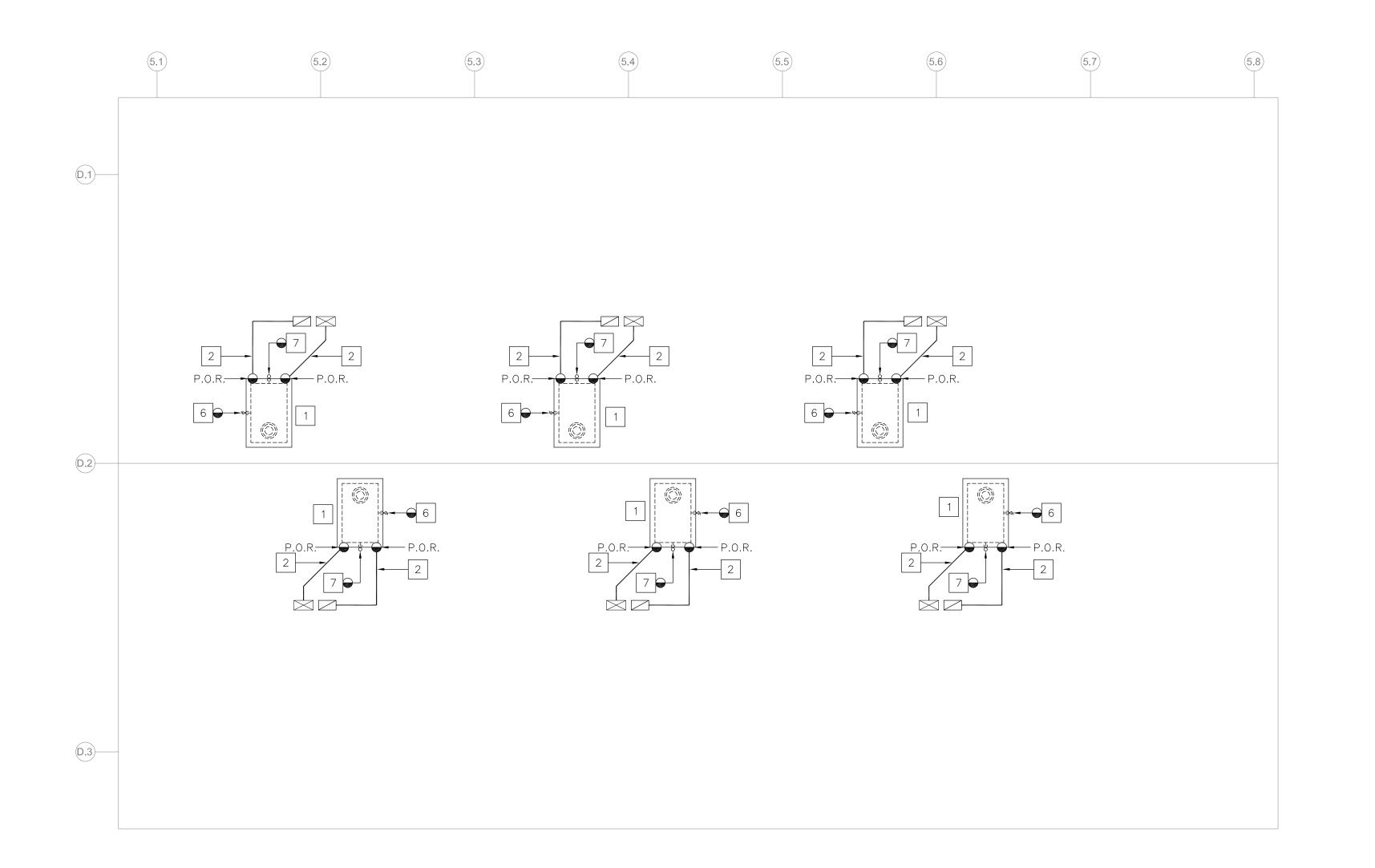




MECHANICAL DEMOLITION FLOOR PLAN - KINDERGARTEN

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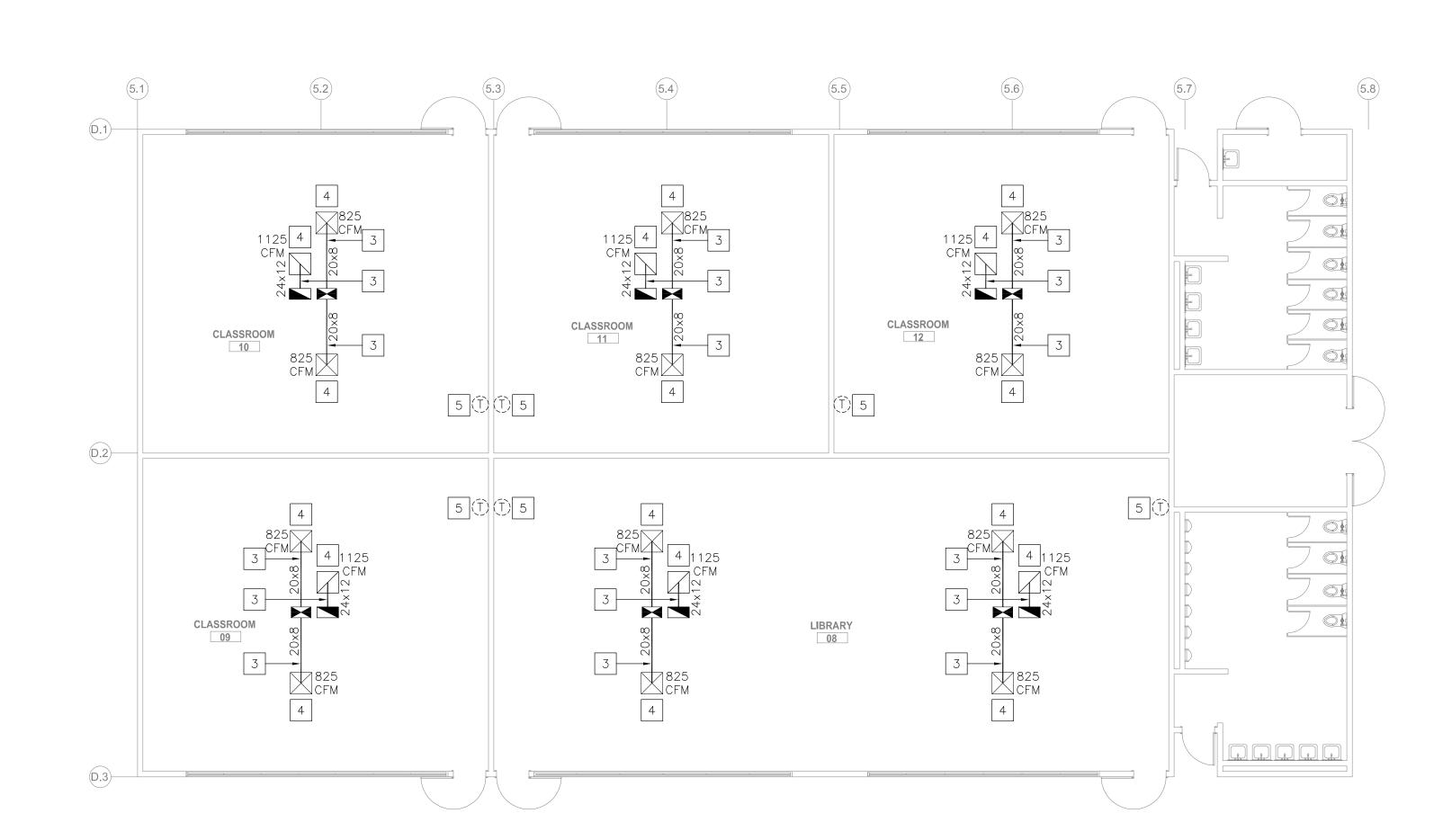
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MECHANICAL DEMOLITION ROOF PLAN - CLASSROOM 9 THRU 12

1/8" = 1'-0"

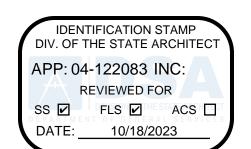


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#### □ DEMOLITION NOTES

- 1.— REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SIDE DISCHARGE SUPPLY AND RETURN DUCTWORK AT FLEX CONNECTOR. MODIFY DUCTWORK FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.— EXISTING ROOFTOP EXPOSED DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. PAINT ALL EXPOSED DUCTWORK TO MATCH ROOF FINISH.
- 3.— EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 4.— FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 5.— 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.
- 6.- P.O.R.- DISCONNECT EXISTING GAS PIPING FROM A/C UNIT AND REMOVE PIPING UP TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING GAS PIPING BOOT ASSEMBLY DURING CONSTRUCTION).
- 7.- P.O.R.- DISCONNECT EXISTING CONDENSATE DRAIN PIPING FROM A/C UNIT AND REMOVE PIPING TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING CD PIPING BOOT ASSEMBLY DURING CONSTRUCTION).





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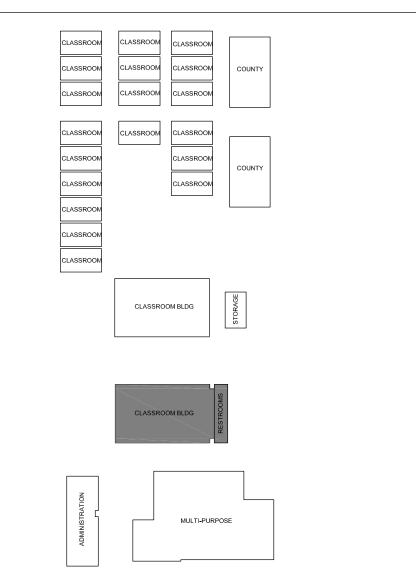
### **AIR BALANCE NOTE**

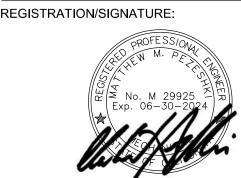
EXISTING AIRFLOW RATES SHOWN ARE FOR REFERENCE ONLY. PERFORM PRE-DEMOLITION AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE FIELD MEASURED AIR QUANTITY VALUES. SUBMIT DRAWINGS AND REPORT TO ENGINEER/ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF DEMOLITION WORK.

#### **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.

#### **KEYPLAN**





SHEET TITLE:

MECHANICAL DEMO.
FLOOR PLANS CLASSROOM 9 THRU 12

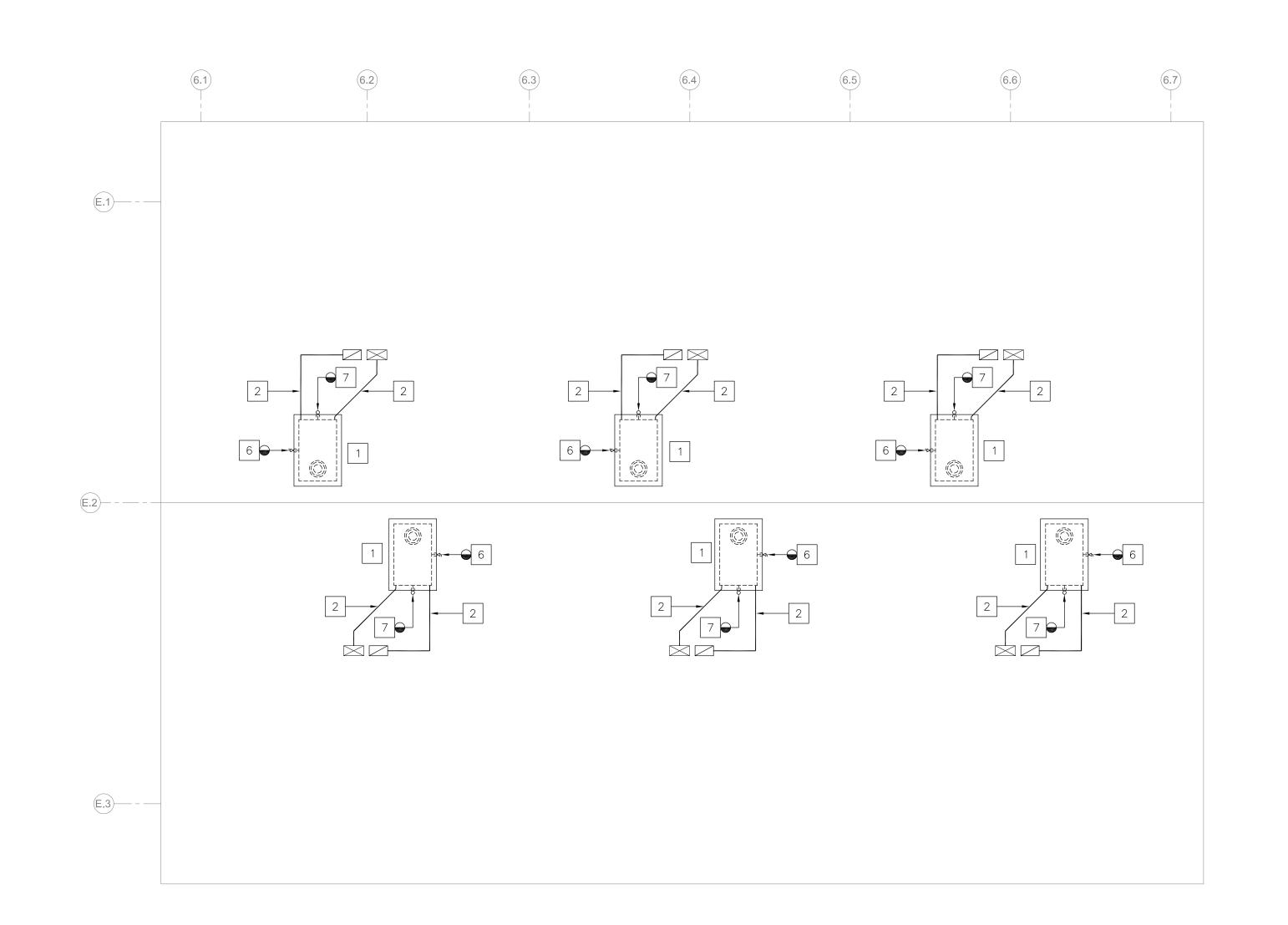
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MECHANICAL DEMOLITION ROOF PLAN - CLASSROOM 13 THRU 18

1/8" = 1'-0"

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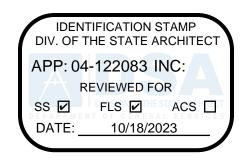
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#### □ DEMOLITION NOTES

DUCTWORK TO MATCH ROOF FINISH.

- 1.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SIDE DISCHARGE SUPPLY AND RETURN DUCTWORK. MODIFY DUCTWORK FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR
- CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION. 2.- EXISTING ROOFTOP EXPOSED DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. PAINT ALL EXPOSED
- 3.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 4.- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 5.- 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.
- 6.- P.O.R.- DISCONNECT EXISTING GAS PIPING FROM A/C UNIT AND REMOVE PIPING UP TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING GAS PIPING BOOT ASSEMBLY DURING CONSTRUCTION).
- 7.- P.O.R.- DISCONNECT EXISTING CONDENSATE DRAIN PIPING FROM A/C UNIT AND REMOVE PIPING TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING CD PIPING BOOT ASSEMBLY DURING CONSTRUCTION).





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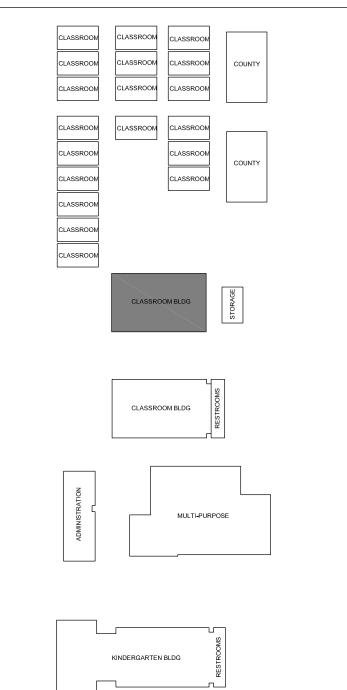
#### AIR BALANCE NOTE

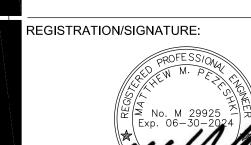
EXISTING AIRFLOW RATES SHOWN ARE FOR REFERENCE ONLY. PERFORM PRE-DEMOLITION AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE FIELD MEASURED AIR QUANTITY VALUES. SUBMIT DRAWINGS AND REPORT TO ENGINEER/ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF DEMOLITION WORK.

#### **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.

### **KEYPLAN**

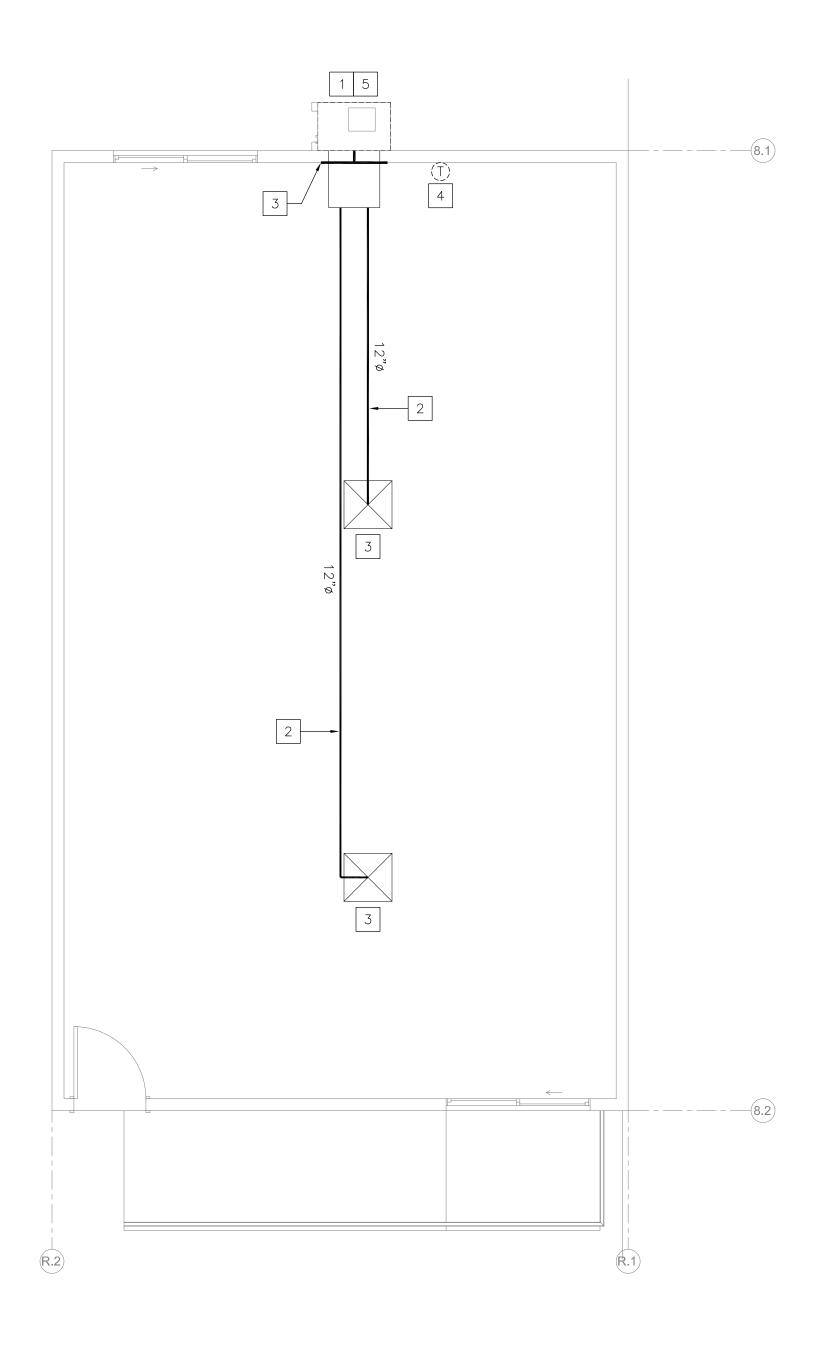




MECHANICAL DEMO. **FLOOR PLAN -CLASSROOM 13 THRU 18** 

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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. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW WALL MOUNTED HEAT PUMP UNIT. PREPARE AREA OF REMOVAL TO RECEIVE NEW WALL MOUNTED HEAT PUMP. SEE NOTE 5 ON THIS SHEET AND RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.— EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 3.— FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 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.— PRIOR TO COMMENCEMENT OF DEMOLITION WORK REMOVE ALL EXISTING EMS UNIT CONTROLLERS FROM EXISTING WALL MOUNTED HEAT PUMP UNIT. PROTECT DURING CONSTRUCTION FOR RE—INSTALLATION ON NEW WALL MOUNTED HEAT PUMP UNIT. COORDINATE WITH EMS CONTRACTOR FOR REMOVAL AND RE—INSTALLATION WORK. SEE RENOVATION AND CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.





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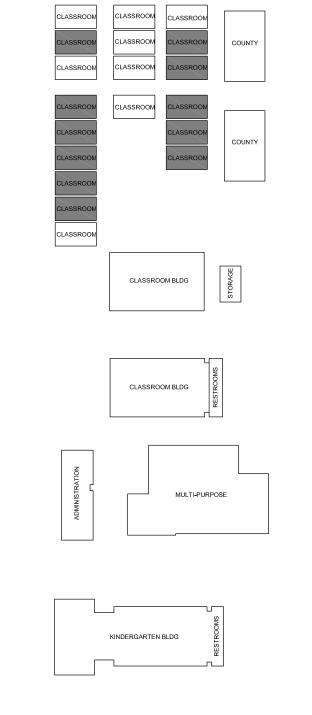
#### **AIR BALANCE NOTE**

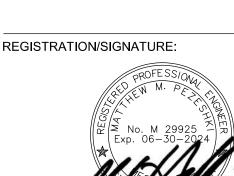
1. EXISTING AIRFLOW RATES SHOWN ARE FOR REFERENCE ONLY. PERFORM PRE-DEMOLITION AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE FIELD MEASURED AIR QUANTITY VALUES. SUBMIT DRAWINGS AND REPORT TO ENGINEER/ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF DEMOLITION WORK.

#### **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.
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#### **KEYPLAN**





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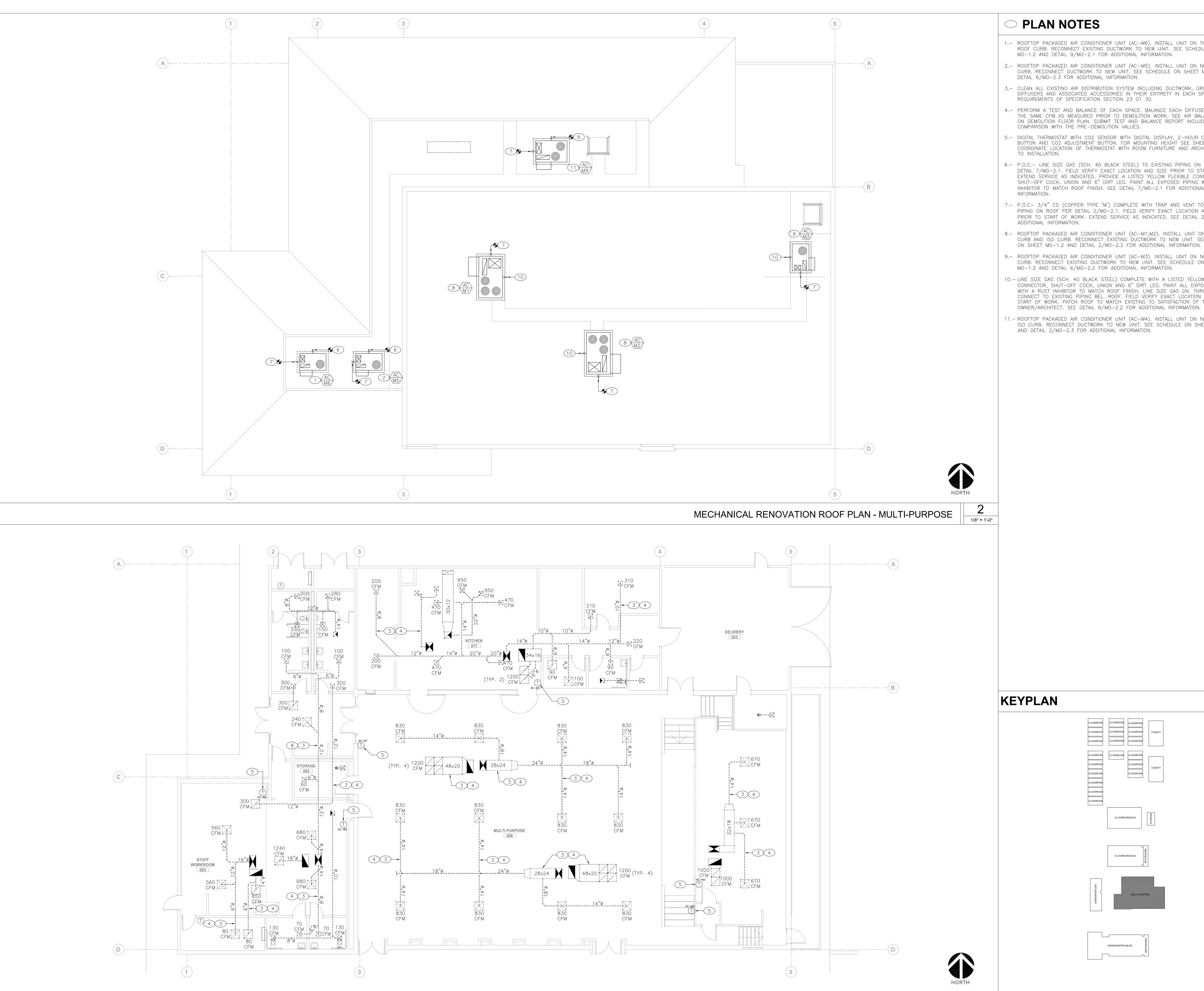
MECHANICAL
DEMOLITION FLOOR
PLAN - RELOCATABLES

MD2-1.

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**PLAN NOTES** 

- 1.- ROOFTOP PACKAGED AIR CONDITIONER UNIT (AC-M6). INSTALL UNIT ON THE EXISTING ROOF CURB. RECONNECT EXISTING DUCTWORK TO NEW UNIT. SEE SCHEDULE ON SHEET MO-1.2 AND DETAIL 9/MO-2.1 FOR ADDITIONAL INFORMATION.
- 2.- ROOFTOP PACKAGED AIR CONDITIONER UNIT (AC-M5). INSTALL UNIT ON NEW TRANSITION CURB. RECONNECT DUCTWORK TO NEW UNIT. SEE SCHEDULE ON SHEET MO-1.2 AND
- 3.- CLEAN ALL EXISTING AIR DISTRIBUTION SYSTEM INCLUDING DUCTWORK, GRILLES, DIFFUSERS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 4.- PERFORM A TEST AND BALANCE OF EACH SPACE. BALANCE EACH DIFFUSER/GRILLE TO THE SAME CFM AS MEASURED PRIOR TO DEMOLITION WORK. SEE AIR BALANCE NOTE ON DEMOLITION FLOOR PLAN. SUBMIT TEST AND BALANCE REPORT INCLUDING COMPARISON WITH THE PRE-DEMOLITION VALUES.
- 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
- 6.- P.O.C.- LINE SIZE GAS (SCH. 40 BLACK STEEL) TO EXISTING PIPING ON ROOF PER DETAIL 7/MO-2.1. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK. EXTEND SERVICE AS INDICATED. PROVIDE A LISTED YELLOW FLEXIBLE CONNECTOR, SHUT-OFF COCK, UNION AND 6" DIRT LEG. PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR TO MATCH ROOF FINISH. SEE DETAIL 7/M0-2.1 FOR ADDITIONAL
- 7.- P.O.C- 3/4" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT TO EXISTING PIPING ON ROOF PER DETAIL 2/MO-2.1. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK. EXTEND SERVICE AS INDICATED. SEE DETAIL 2/MO-2.1 FOR
- ADDITIONAL INFORMATION. 8.- ROOFTOP PACKAGED AIR CONDITIONER UNIT (AC-M1,M2). INSTALL UNIT ON NEW ROOF CURB AND ISO CURB. RECONNECT EXISTING DUCTWORK TO NEW UNIT. SEE SCHEDULE
- 9.- ROOFTOP PACKAGED AIR CONDITIONER UNIT (AC-M3). INSTALL UNIT ON NEW ROOF CURB. RECONNECT EXISTING DUCTWORK TO NEW UNIT. SEE SCHEDULE ON SHEET MO-1.2 AND DETAIL 6/MO-2.2 FOR ADDITIONAL INFORMATION.
- 10.- LINE SIZE GAS (SCH. 40 BLACK STEEL) COMPLETE WITH A LISTED YELLOW FLEXIBLE CONNECTOR, SHUT-OFF COCK, UNION AND 6" DIRT LEG. PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR TO MATCH ROOF FINISH. LINE SIZE GAS DN. THRU ROOF AND CONNECT TO EXISTING PIPING BEL. ROOF. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PATCH ROOF TO MATCH EXISTING TO SATISFACTION OF THE
- 11.- ROOFTOP PACKAGED AIR CONDITIONER UNIT (AC-M4). INSTALL UNIT ON NEW TRANSITION ISO CURB. RECONNECT DUCTWORK TO NEW UNIT. SEE SCHEDULE ON SHEET MO-1.2 AND DETAIL 2/M0-2.3 FOR ADDITIONAL INFORMATION.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122083 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 10/18/2023



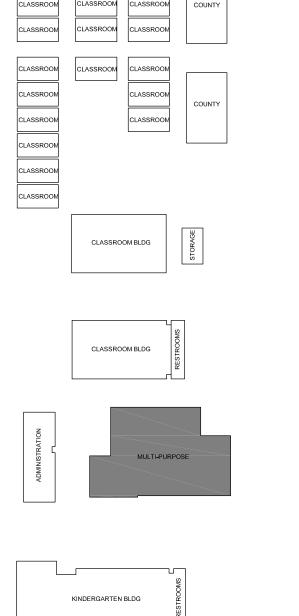
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REVISIONS:





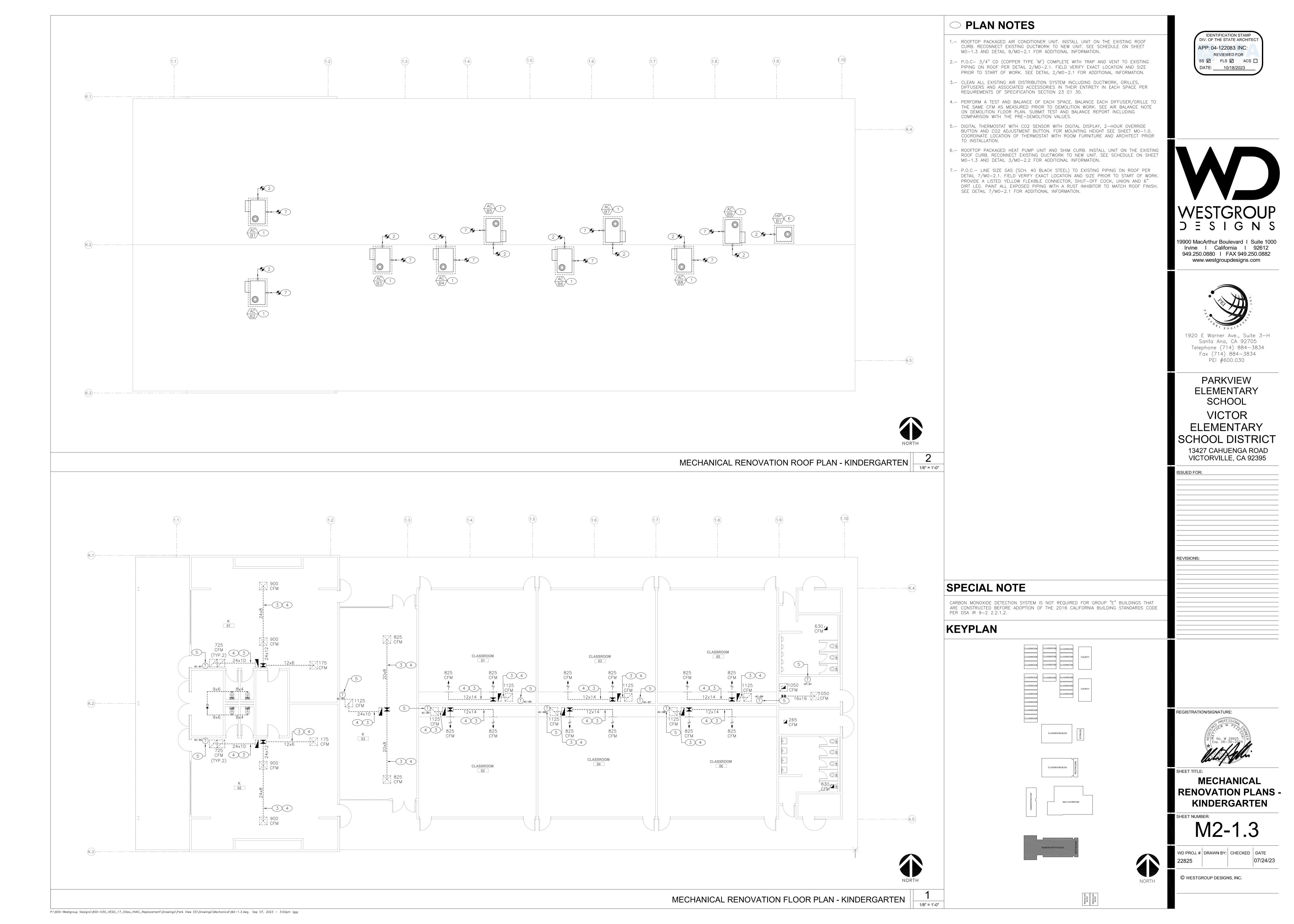
**MECHANICAL RENOVATION PLANS -**

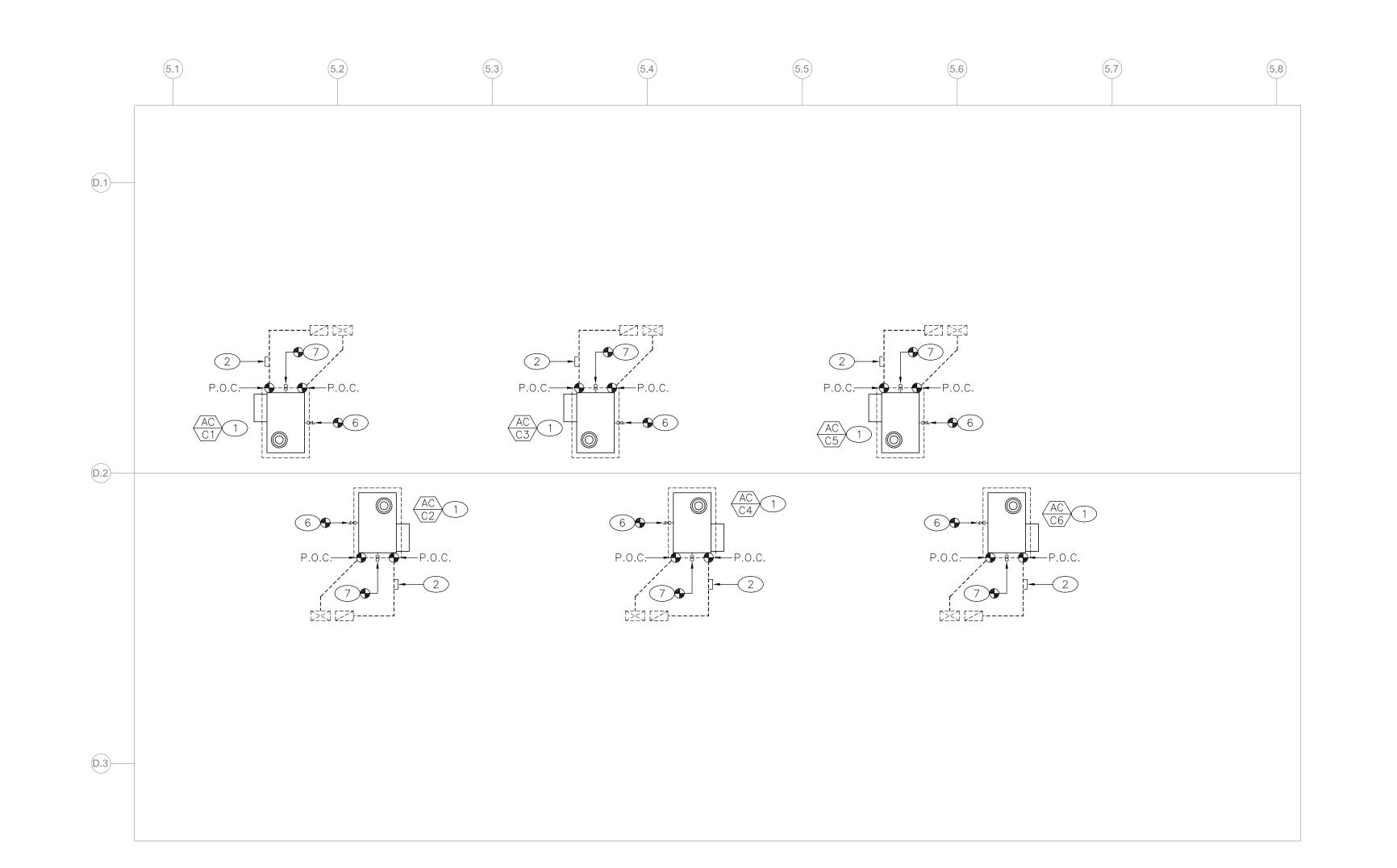
**MULTI-PURPOSE** 

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MECHANICAL RENOVATION FLOOR PLAN - MULTI-PURPOSE







MECHANICAL RENOVATION ROOF PLAN - CLASSROOMS 9 THRU 12

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## **PLAN NOTES**

1.- ROOFTOP PACKAGED AIR CONDITIONER UNIT. INSTALL UNIT ON THE EXISTING ROOF CURB. RECONNECT EXISTING SIDE DISCHARGE DUCTWORK TO NEW UNIT WITH NEW FLEX CONNECTOR. PROVIDE SHEET METAL RAIN COVER OVER FLEX CONNECTOR. SEE SCHEDULE ON SHEET MO-1.4 AND DETAIL 4/MO-2.1 FOR ADDITIONAL INFORMATION.

- 2.- PROVIDE ONE (1) MICROMETL NO. 0876-0500 (12"x12") BAROMETRIC RELIEF DAMPER ON EXISTING RETURN AIR DUCTWORK.
- 3.- CLEAN ALL EXISTING AIR DISTRIBUTION SYSTEM INCLUDING DUCTWORK, GRILLES, DIFFUSERS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 4.- PERFORM A TEST AND BALANCE OF EACH SPACE. BALANCE EACH DIFFUSER/GRILLE TO THE SAME CFM AS MEASURED PRIOR TO DEMOLITION WORK. SEE AIR BALANCE NOTE ON DEMOLITION FLOOR PLAN. SUBMIT TEST AND BALANCE REPORT INCLUDING COMPARISON WITH THE PRE-DEMOLITION VALUES.
- 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.- P.O.C.- LINE SIZE GAS (SCH. 40 BLACK STEEL) TO EXISTING PIPING ON ROOF PER DETAIL 7/MO-2.1. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK. PROVIDE A LISTED YELLOW FLEXIBLE CONNECTOR, SHUT-OFF COCK, UNION AND 6" DIRT LEG. PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR TO MATCH ROOF FINISH. SEE DETAIL 7/M0-2.1 FOR ADDITIONAL INFORMATION.
- 7.- P.O.C- 3/4" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT TO EXISTING PIPING ON ROOF PER DETAIL 2/MO-2.1. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK. SEE DETAIL 2/M0-2.1 FOR ADDITIONAL INFORMATION.





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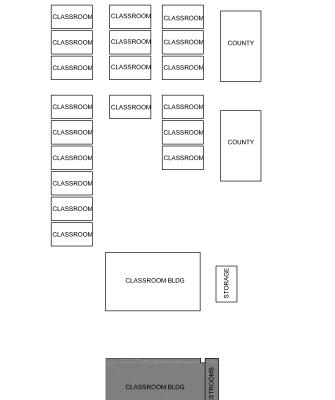
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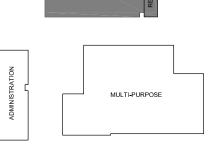
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# **SPECIAL NOTE**

CARBON MONOXIDE DETECTION SYSTEM IS NOT REQUIRED FOR GROUP "E" BUILDINGS THAT ARE CONSTRUCTED BEFORE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE PER DSA IR 9-2 2.2.1.2.

# **KEYPLAN**









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REGISTRATION/SIGNATURE:

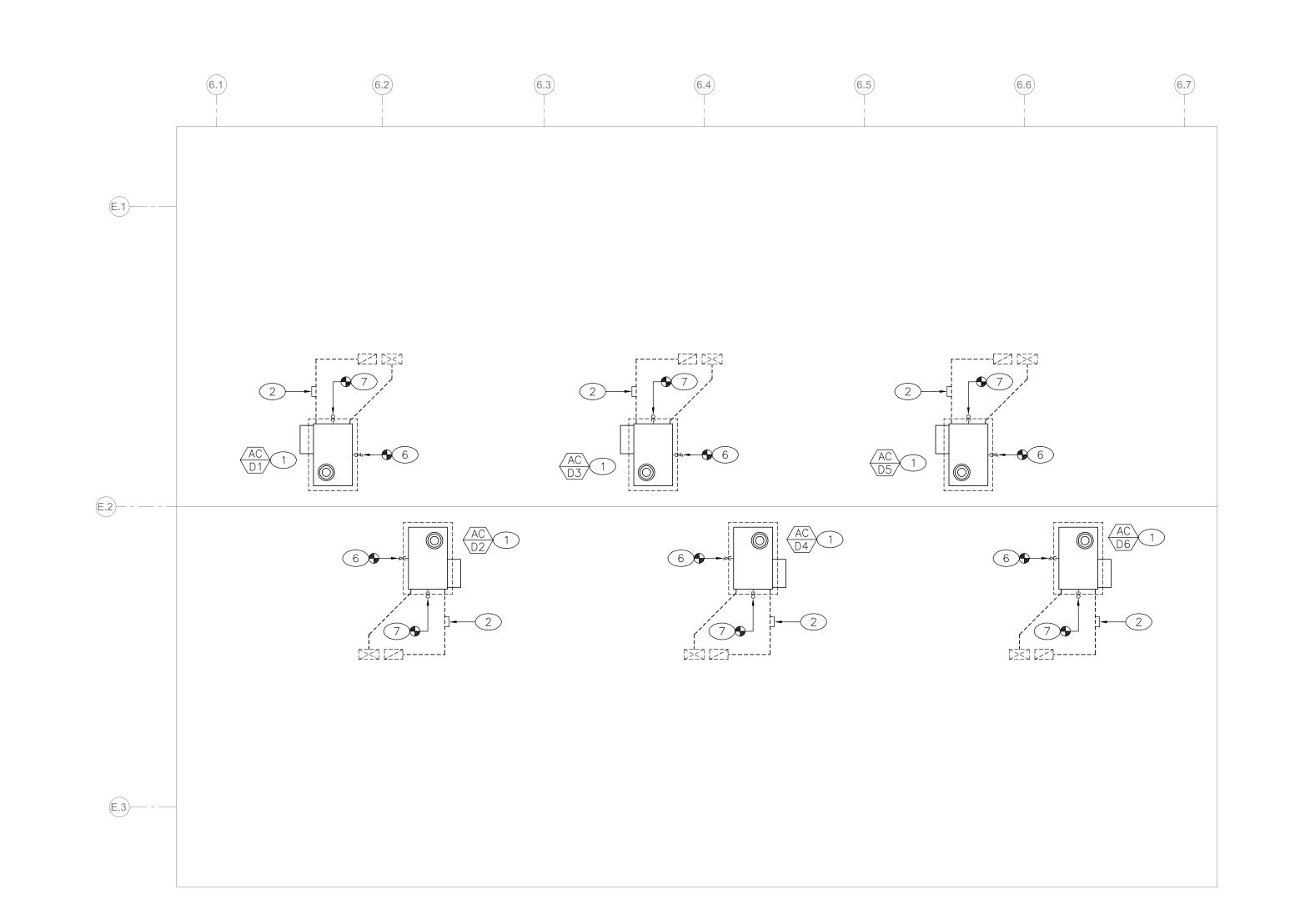
MECHANICAL RENO.

**FLOOR PLANS -**

CLASSROOM 9 THRU 12



MECHANICAL RENOVATION FLOOR PLAN - CLASSROOMS 9 THRU 12



CLASSROOM

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MECHANICAL RENOVATION ROOF PLAN - CLASSROOMS 13 THRU 18

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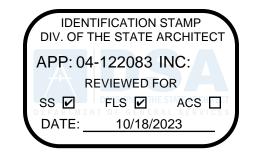
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CLASSROOM

# **PLAN NOTES**

- 1.- ROOFTOP PACKAGED AIR CONDITIONER UNIT. INSTALL UNIT ON THE EXISTING ROOF CURB. RECONNECT EXISTING SIDE DISCHARGE DUCTWORK TO NEW UNIT. SEE SCHEDULE ON SHEET MO-1.4 AND DETAIL 4/MO-2.1 FOR ADDITIONAL INFORMATION.
- 2.- PROVIDE ONE (1) MICROMETL NO. 0876-0500 (12"x12") BAROMETRIC RELIEF DAMPER ON EXISTING RETURN AIR DUCTWORK.
- 3.- CLEAN ALL EXISTING AIR DISTRIBUTION SYSTEM INCLUDING DUCTWORK, GRILLES, DIFFUSERS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 4.- PERFORM A TEST AND BALANCE OF EACH SPACE. BALANCE EACH DIFFUSER/GRILLE TO THE SAME CFM AS MEASURED PRIOR TO DEMOLITION WORK. SEE AIR BALANCE NOTE ON DEMOLITION FLOOR PLAN. SUBMIT TEST AND BALANCE REPORT INCLUDING COMPARISON WITH THE PRE-DEMOLITION VALUES.
- 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.- P.O.C.- LINE SIZE GAS (SCH. 40 BLACK STEEL) TO EXISTING PIPING ON ROOF PER DETAIL 7/MO-2.1. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK. PROVIDE A LISTED YELLOW FLEXIBLE CONNECTOR, SHUT-OFF COCK, UNION AND 6" DIRT LEG. PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR TO MATCH ROOF FINISH. SEE DETAIL 7/M0-2.1 FOR ADDITIONAL INFORMATION.
- 7.- P.O.C- 3/4" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT TO EXISTING PIPING ON ROOF PER DETAIL 2/MO-2.1. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK. SEE DETAIL 2/M0-2.1 FOR ADDITIONAL INFORMATION.





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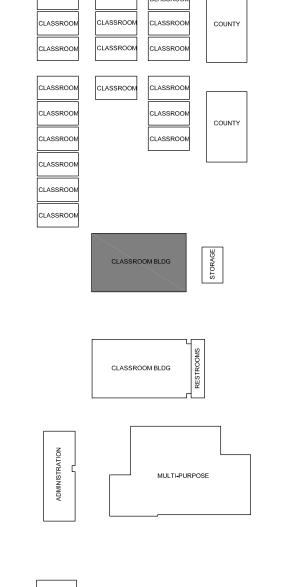
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# **SPECIAL NOTE**

CARBON MONOXIDE DETECTION SYSTEM IS NOT REQUIRED FOR GROUP "E" BUILDINGS THAT ARE CONSTRUCTED BEFORE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE PER DSA IR 9-2 2.2.1.2.

# **KEYPLAN**







MECHANICAL RENO. **FLOOR PLANS -**CLASSROOM 13 THRU 18

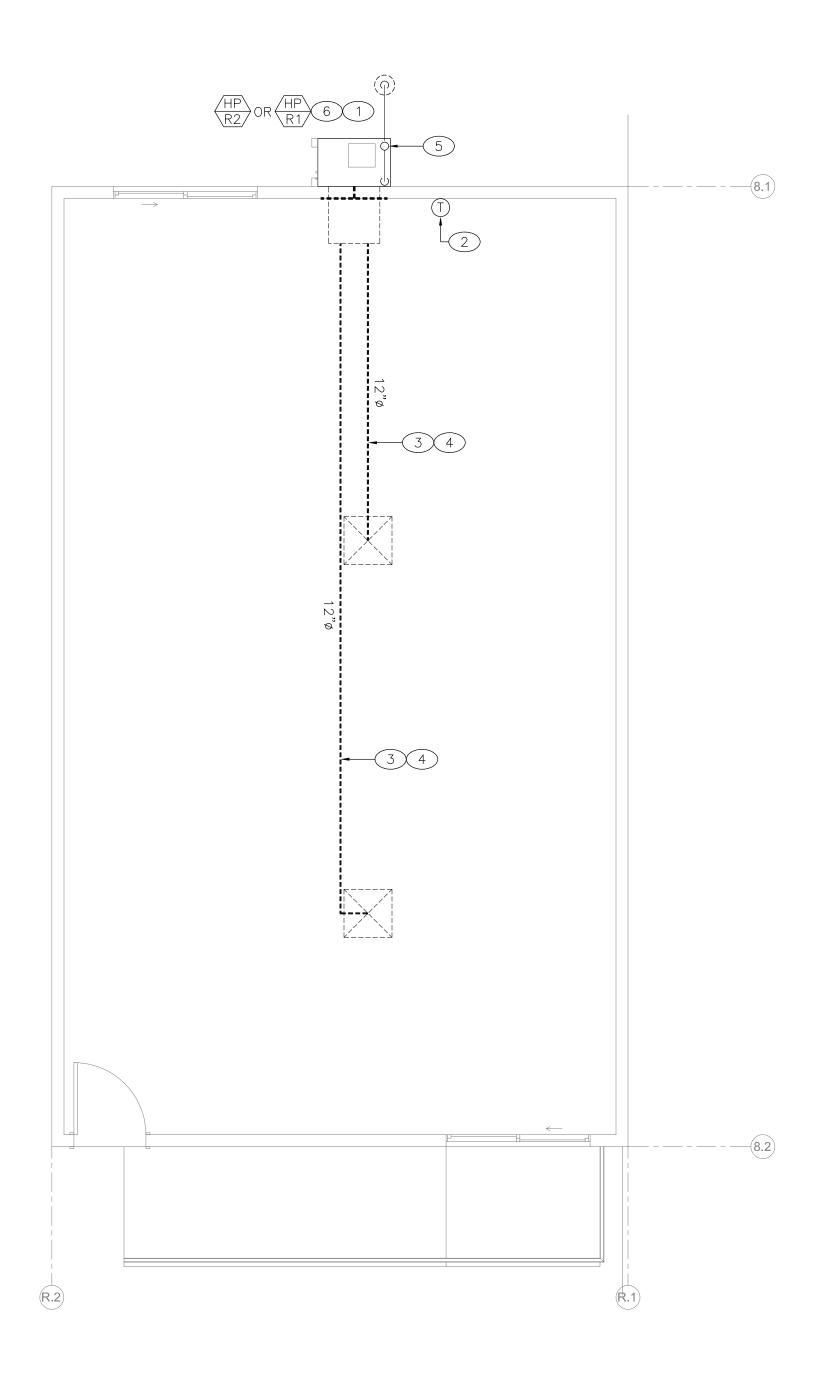
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MECHANICAL RENOVATION FLOOR PLAN - CLASSROOMS 13 THRU 18





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### PLAN NOTES

- 1.- WALL MOUNTED HEAT PUMP UNIT. RECONNECT TO EXISTING DUCTWORK. THE NEW BARD UNIT IS LONGER IN LENGTH (BY 7") THAN THE EXISTING UNIT. AFTER INSTALLATION OF THE REPLACEMENT UNIT, PATCH, RÉPAIR AND PAINT THE AREA OF REMOVAL OF THE OLDER UNIT INCLUDING THE ANCHOR HOLES TO MATCH THE SURROUND WALL SURFACE TO THE SATISFACTION OF THE OWNER. SEE NOTE 6 ON THIS SHEET, SCHEDULE ON SHEET MO-1.2, DETAILS 5/MO-2.1, 3/MO-2.3 AND GENERAL NOTE ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 2.- 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.
- 3.- CLEAN ALL EXISTING AIR DISTRIBUTION SYSTEM INCLUDING DUCTWORK, GRILLES, DIFFUSERS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 4.- PERFORM A TEST AND BALANCE OF EACH SPACE. BALANCE EACH DIFFUSER/GRILLE TO THE SAME CFM AS MEASURED PRIOR TO DEMOLITION WORK. SEE AIR BALANCE NOTE ON DEMOLITION FLOOR PLAN. SUBMIT TEST AND BALANCE REPORT INCLUDING COMPARISON WITH THE PRE-DEMOLITION VALUES.
- 5.- <u>FOR CLASSROOM RELOCATABLES 32, 33, 35, 40 AND 41:</u> 3/4" CD (COPPER TYPE 'M') FROM OUTDOOR HP UNIT DN. TO BEL. GRADE AND DISCHARGE INTO DRYWELL WITH LEGAL AIR-GAP. PATCH GRADE TO MATCH EXISTING. SEE DETAIL 3/M0-2.1 FOR ADDITIONAL INFORMATION.
- FOR CLASSROOM RELOCATABLES 20, 21, 22, 23, 24 AND 26: 3/4" CD (COPPER TYPE 'M') FROM OUTDOOR HP UNIT DN. FACE OF WALL AND TERMINATE WITH A 90° ELBOW AT +6" ABV. GRADE.
- 6.- RE-INSTALL EXISTING EMS CONTROLLERS TO NEW WALL MOUNTED HEAT PUMP UNIT. SEE DEMOLITION AND CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122083 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE: 10/18/2023



19900 MacArthur Boulevard | Suite 1000 Irvine I California I 92612 949.250.0880 I FAX 949.250.0882 www.westgroupdesigns.com



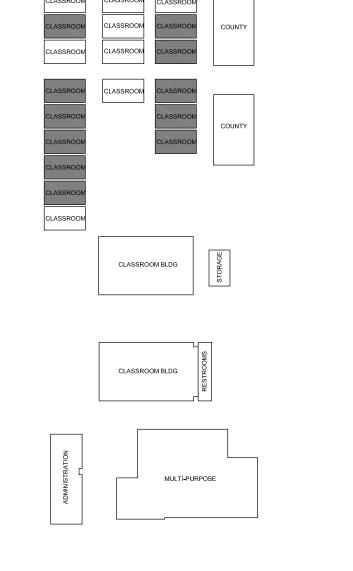
1920 E Warner Ave., Suite 3—H Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884-3834 PEI #600.030

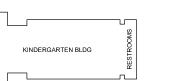
**PARKVIEW** ELEMENTARY SCHOOL VICTOR ELEMENTARY SCHOOL DISTRICT 13427 CAHUENGA ROAD VICTORVILLE, CA 92395

# **GENERAL NOTE**

1.— LAYOUT SHOWN ON THIS SHEET IS TYPICAL FOR ALL RELOCATABLE BUILDINGS. FOR THE ACTUAL UNIT TAG, MODEL AND SIZE FOR EACH RELOCATABLE BUILDING, REFER TO SHEET M1—1.1 AND UNIT SCHEDULE ON SHEET M0—1.2.

# **KEYPLAN**









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REGISTRATION/SIGNATURE:



# VICTOR ELEMENTARY SCHOOL DISTRICT PARK VIEW PREP. SCHOOL OF 21ST CENTURY LEARNING - HVAC UPGRADE

VICTORVILLE, CALIFORNIA

**VICINITY MAP** 

**VICINITY MAP** 

CODE REQUIREMENTS APPLICABLE CODES AND REGULATIONS ALL WORK PERTAINING TO AND ALL MATERIALS SUPPLIED FOR EXECUTING AND COMPLETING THIS CONTRACT SHALL COMPLY WITH PROVISIONS SPECIFIED IN THE CONTRACT DOCUMENTS AND WITH APPLICABLE LAWS. REGULATIONS, AND ORDINANCES GOVERNING WORK INCLUDING, BUT NOT NECESSARILY LIMITED TO THOSE OF THE FOLLOWING: 2022 California Administrative Code (CAC), Part 1, Title 24 CCR 2022 California Building Code (CBC), Part 2, Title 24 CCR 2022 California Electrical Code (CEC), Part 3, Title 24 CCR 2022 California Mechanical Code (CMC), Part 4, Title 24 CCR 2022 California Plumbing Code (CPC), Part 5, Title 24 CCR 2022 California Energy Code (CEC), Part 6, Title 24 CCR 2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR 2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR 2022 California Referenced Standards Code, Part 12, Title 24 CCR Title 19 CCR, Public Safety, State Fire Marshal Regulations <u>APPLICABLE STANDARDS</u>
FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

NOTES

- IT IS HEREBY UNDERSTOOD THAT THE ARMC MUST MAINTAIN IT'S REGULAR SERVICE DURING THE TIME WORK IS IN PROGRESS. ADVANCE SCHEDULING WITH THE COUNTY OFFICE SHALL BE ARRANGED BY THE CONTRACTOR TO
- UPON COMPLETION OF EACH PHASE OF THE WORK AND AT SUCH TIMES AS DIRECTED BY THE OWNER, REMOVE ALL SURPLUS MATERIAL, TOOLS AND DEBRIS AND LEAVE THE SITE IN A CLEAN AND NEAT CONDITION. PROVIDE PROTECTION FROM DUST, DIRT AND MOISTURE FOR THE PROTECTION OF THE WORKMEN, STAFF, VISITORS AND EXISTING COMPUTER EQUIPMENT AS REQUIRED BY ALL PERTINENT CODES AND REGULATIONS.
- EXERCISE EXTREME CARE TO PREVENT DAMAGE TO EXISTING EQUIPMENT, STRUCTURES AND SERVICES. DAMAGE AS A RESULT OF THIS WORK SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER. VERIFY THE PRECISE LOCATIONS OF ALL EQUIPMENT WITH THE OWNER PRIOR TO THE INSTALLATION OF THAT EQUIPMENT OR THE
- DEMOLITION PLAN AND NOTES ARE INCLUDED FOR GENERAL INFORMATION ONLY AND ARE NOT INTENDED TO
- THE OWNER AT THE COMPLETION OF THE PROJECT. AS-BUILT DRAWINGS ARE THE FINAL SET OF DRAWINGS PRODUCED AT THE COMPLETE OF A CONSTRUCTION PROJECT. THEY INCLUDE ALL THE CHANGES THAT HAVE BEEN MADE TO THE ORIGINAL CONSTRUCTION DRAWINGS INCLUSIVE OF NOTES, MODIFICATIONS, REVISIONS AND ANY OTHER INFORMATION THAT HAS BEEN MODIFIED OR OTHERWISE CHANGED. AS-BUILD DRAWINGS SHOULD NOT CHANGE OR ALTER THE DESIGN INTENT BUT SHOULD DEPICT THE ACTUAL AS-BUILT CONDITIONS OF THE COMPLETED

#### CONSTRUCTION GENERAL NOTES

WHENEVER CUTTING, PATCHING, ETC. IS REQUIRED; ALL ADJACENT SURFACES SHALL BE FINISHED TO ACHIEVE A

# SHEET INDEX

- ELECTRICAL GENERAL NOTES & SYMBOLS LIST
- EXISTING OVERALL SITE PLAN
- ENLARGED FLOOR PLAN MULTI-PURRPOSE
- **ENLARGED ROOF PLANS KINDERGARTEN**
- E5-1.3 ENLARGED FLOOR PLAN ADMINISTRATION
- ENLARGED ROOF PLANS ADMINISTRATION
- ENLARGED ROOF PLANS CLASSROOM 9 THRU 12
- ENLARGED ROOF PLANS CLASSROOM 13 THRU 18

ENLARGED PLANS - RELOCATABLE (SINGLE UNIT)

SCHOOL DISTRICT 13427 CAHUENGA RD.

VICTORVILLE, CA 92395

PARK VIEW PREP

SCHOOL OF 21ST

**CENTURY LEARNING** 

VICTOR

ELEMENTARY

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITE

REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆

949.250.0880 I FAX 949.250.0882

APP: 04-122083 INC:

PROJECT DESCRIPTION

HVAC REPLACEMENT

PROJECT ADDRESS VEUSD PARK VIEW PREP. SCHOOL OF 21ST CENTURY LEARNING

PROJECT TEAM

13427 CAHUENGA RD.

VICTORVILLE, CALIFORNIA 92395

#### **ELECTRICAL ENGINEER**

AG DESIGN, INC

2100 W ORANGEWOOD AVE, SUITE 165

ORANGE, CALIFORNIA 92868 PHONE | 714.769.9900

TO POWER EXHAUST TO HVAC UNIT POWER SWITCH. REFER TO ROOF PLANS FOR TYPE, QUANTITIES AND LOCATIONS (TYP.) -REFER TO ROOF PLANS FOR CONDUIT AND CONDUCTOR SIZES. CONDUIT & CONDUCTORS FOR HVAC UNIT POWER SHALL BE THE SAME PROVIDE JUNCTION BOX SIZED — FOR POWER EXHAUST POWER. PER CEC 314.16 LOCATED BELOW FINISHED CEILING. SPLICE CONDUCTORS IN BOX TO ALLOW CONDUCTORS TO BE ROUTED AS SHOWN. HOMERUN TO POWER PANEL. REFER TO ROOF PLANS FOR PANEL DESIGNATION AND

REGISTRATION/SIGNATURE

TITLE SHEET

E000

WD PROJ. # DRAWN BY: CHECKED DATE DL, AM | GM | 03/27/23

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NOT TO

HVAC UNIT POWER EXHAUST CONNECTION DETAIL

#### **GENERAL NOTES**

THE ELECTRICAL CONTRACTOR (EC) SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL ELECTRICAL SYSTEMS.

RIGID GALVANIZED STEEL IS TO BE INSTALLED IN ALL AREAS WHICH ARE EXPOSED TO WEATHER AND/OR

- 2. EC SHALL COORDINATE AND OBTAIN ALL APPROVALS, PERMITS, AND DOCUMENTS FROM REGULATORY AGENCIES AND
- UTILITY COMPANIES. 3. ALL CONDUIT RACEWAY SYSTEMS ARE TO BE INSTALLED AS FOLLOWS:
- FLEXIBLE METALLIC CONDUIT I S PERMITTED FOR SHORT CONNECTIONS TO LIGHT FIXTURES (6'-0" MAX).
- FLEXIBLE CONDUIT SHALL ALSO BE INSTALLED FOR EQUIPMENT REQUIRING VIBRATION ISOLATION AND HORIZONTAL RUNS IN WOODEN STUD WALLS. ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION TYPE FITTINGS SHALL BE USED FOR BUILDING
- P.V.C. CONDUIT SHALL BE USED FOR UNDERGROUND CONDUITS. ROUTE CODE SIZED GROUND WIRE INSIDE OF
- CONDUIT. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR
- 4. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS ALL NEW ELECTRICAL WIRING IS TO BE 600V RATED COPPER WITH TYPE "THHN/THWN" INSULATION.
- 5. ALL MOUNTING HEIGHTS REFERENCED ON DRAWINGS ARE MEASURED FROM FINISHED FLOOR UNLESS OTHERWISE REFERENCED OR INDICATED ON THE DRAWINGS.
- 6. ALL ELECTRICAL EQUIPMENT LOCATIONS (LIGHTING, RECEPTACLE, FLOOR BOX, ETC.) ARE TO BE VERIFIED WITH THE ARCHITECT AND/OR EQUIPMENT SUPPLIER PRIOR TO BEGINNING ANY ROUGH-IN.
- ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS, AND ALL STATE, LOCAL, SEISMIC, AND NATIONAL ELECTRIC CODES.
- 8. THE DRAWINGS INCLUDED IN THIS DOCUMENT SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORDS DESIGN INTENT FOR ALL ELECTRICAL DEVICES/EQUIPMENT AND THE INDIVIDUAL POWER FEEDS THEY ARE TO BE CONNECTED TO. THE SELECTED EC SHALL BE RESPONSIBLE FOR PROVIDING ALL J-BOXES, CONDUIT, WIRING/ CABLING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.
- 9. ALL ELECTRICAL EQUIPMENT (PANELS, RECEPTACLES, J-BOXES, ETC.) SHALL BE WEATHERPROOF AND/OR INSTALLED IN A NEMA 3R ENCLOSURE WHERE APPLICABLE OR INSTALLED OUTDOORS.
- 10. ALL ELECTRICAL WORK SHALL BE PERFORMED ACCORDING TO STATE, LOCAL, NATIONAL, AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION.
- 11. ALL ELECTRICAL EQUIPMENT SHALL BE NEW AND IS TO BE CLEARLY LABELED/IDENTIFIED AS UNDERWRITER LABORATORIES (UL) COMPLIANT UNLESS OTHERWISE NOTED OR REFERENCED IN THE DRAWINGS OR SPECIFICATIONS. ANY EQUIPMENT WITH A LISTING OTHER THAN "UL" OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) LISTING AS REFERENCED IN CEC 110.2 (I.E. EQUIPMENT WITH A RECOGNIZED "UR/"RU" LISTING) ARE NOT PERMITTED FOR USE.
- 12. EC IS RESPONSIBLE FOR SECURING ALL REQUIRED BUILDING PERMITS AND SHALL INCLUDE THE COST TO SECURE BUILDING PERMITS IN THEIR FINAL BID.
- 13. UNLESS OTHERWISE WRITTEN, STATED, OR REFERENCED IN DRAWINGS OR SPECIFICATIONS CONTRACTOR SHALL GUARANTEE THE COMPLETE ELECTRICAL INSTALLATION FOR A PERIOD OF 1-YEAR.
- 14. ALL ELECTRICAL DISTRIBUTION EQUIPMENT (PANELS, DISTRIBUTION BOARDS, TRANSFORMERS, ETC), FEEDERS (CONDUIT, CONDUCTOR SIZE, AND QUANTITY), MECHANICAL EQUIPMENT, ELEVATORS, VARIABLE FREQUENCY DRIVES (VFD'S), ETC. MAY ONLY BE REFERENCED ON THE SINGLE-LINE DRAWING AND NOT INDIVIDUAL PLAN SHEETS. EC SHALL REVIEW AND VERIFY ALL REFERENCED INFORMATION ON THE SINGLE-LINE DRAWING.
- 15. EC SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW-CUTTING, CORE DRILLING, PATCHING, REFINISHING, ETC. AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT AND SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY AND/OR RATING OF THE WALL OR STRUCTURE.
- 16. EC SHALL VISIT THE SITE PRIOR TO SUBMISSION OF THEIR FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE ELECTRICAL INSTALLATION. ALL METHODS AND REQUIREMENTS FOR \ INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. ELECTRICAL EC SHALL NOTIFY THE ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE ELECTRICAL PLANS. SUBMITTAL OF THE EC'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED.
- 17. ALL CEILINGS AND CEILING SYSTEMS AS A RULE ARE CONSIDERED TO BE INACCESSIBLE. ALL ELECTRICAL DEVICES AND EQUIPMENT INSTALLED ABOVE CEILINGS ARE TO BE MOUNTED IN A LOCATION WHICH IS ACCESSIBLE. IN SITUATIONS WHERE ELECTRICAL DEVICES AND EQUIPMENT MUST BE INSTALLED IN AN AREA WHICH IS INACCESSIBLE. EC SHALL INSTALL AN ADEQUATELY SIZED, CODE COMPLIANT ACCESS PANEL AS REQUIRED BY CURRENT CODES LOCATION OF THE REQUIRED ACCESS PANEL SHALL BE COORDINATE WITH THE ARCHITECT AND INTERIOR DESIGNER PRIOR TO ROUGH-IN.
- 18. EC IS RESPONSIBLE FOR COMPLETING ALL FINAL ELECTRICAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL PROVIDE ALL MOTOR START SWITCHES, DISCONNECTS, ETC. AS REQUIRED.
- 19. ALL ELECTRICAL EQUIPMENT CONNECTIONS, MOUNTING LOCATIONS, ELECTRICAL REQUIREMENTS, ETC. ARE TO BE COORDINATED AND VERIFIED PRIOR TO COMMENCEMENT OF ELECTRICAL ROUGH-IN.
- 20. EC TO SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ELECTRICAL ENGINEER OF RECORD FOR ALL ELECTRICAL EQUIPMENT AND MATERIALS TO BE UTILIZED IN THE ELECTRICAL INSTALLATION. ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK.
- 21. THESE ELECTRICAL DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW/APROVAL AND EC BIDDING PURPOSES.
- 22. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NEC/CEC ARTICLE 250. ALL POWER AND LIGHTING CIRCUITS SHALL BE INSTALLED WITH A MINIMUM #12AWG CU GROUND WIRE UNLESS OTHERWISE NOTED
- 23. EC TO PROVIDE ENGRAVED PHENOLIC NAMEPLATES ON ALL DISCONNECT SWITCHES, DISTRIBUTION EQUIPMENT, J-BOXES ETC. WITH METALLIC COVERS. SEE GENERAL NOTES ON SINGLE-LINE DIAGRAM FOR SPECIFIC INFORMATION REGARDING NAMEPLATE REQUIREMENTS.
- 24. ALL COVER PLATES FOR LIGHT SWITCHES AND OUTLETS SHALL BE STAINLESS STEEL WITH PANEL AND CIRCUIT ENGRAVED NAMEPLATES - UNLESS OTHERWISE NOTED.
- 25. AT THE COMPLETION OF THE PROJECT THE EC SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT ELECTRICAL DRAWINGS.
- 26. ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO A BUILDING(S) ELECTRICAL SERVICE MUST BE COORDINATED WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTOWN SHALL NOT OCCUR DURING
- 27. EC SHALL BE RESPONSIBLE FOR FOR ENSURING THAT ALL LOW VOLTAGE SYSTEMS ARE COMPATIBLE AND ARE COMPLETE AND OPERATIONAL.
- 28. EC SHALL PERMANENTLY TAG ALL CONDUCTORS IN EACH ELECTRICAL AND LOW VOLTAGE SYSTEM AS REFERENCED IN
- 29. ANY SURFACE MOUNTED EXPOSED CONDUIT IN VIEW OF THE PUBLIC SHALL BE PAINTED TO MATCH THE FINISH OF THE SURFACE TO WHICH IT IS MOUNTED WITH TWO (2) COATS OF PAINT. ALL EXTERIOR SURFACE MOUNTED EXPOSED CONDUITS ARE TO BE PAINTED WITH TWO (2) COATS OF WEATHERPROOF LATEX PAINT.
- 30. EC TO PROVIDE ALL CONDUIT ONLY (C.O.) INFRASTRUCTURE WITH A 3/16" NYLON PULL ROPE. LABEL PULL ROPE AT EACH END WITH THE LOCATIONS OF ORIGIN AND TERMINATION.
- 31. IN INSTANCES WHERE A CONFLICT BETWEEN THE ELECTRICAL DRAWINGS AND THE SPECIFICATIONS FOR THE PROJECT EXISTS, THE EC SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT.
- 32. SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPTED BY THE 2022 CBC SECTION 1617A. EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE REGISTERED DESIGN PROFESSIONAL (RDP) AND OSHPD AS A PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS
- 33. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. AS SUCH, ALL ELECTRICAL EQUIPMENT LOCATIONS, CONDUIT ROUTING, ETC. ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. EC TO INSTALL ALL ELECTRICAL EQUIPMENT AND ROUTE ALL CONDUITS IN LOCATIONS WHICH MEET CODE REQUIREMENTS FOR ACCESSIBILITY/MOUNTING AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.
- 34. ALL EXISTING SITE RELATED ELECTRICAL EQUIPMENT (I.E. UNDERGROUND UTILITIES, DUCTS, STRUCTURES, PULL BOXES, ETC.) LOCATIONS ARE DIAGRAMMATIC IN NATURE AND ONLY REFLECT APPROXIMATE LOCATIONS, QUANTITIES, AND/OR ROUTING INFORMATION. ALL REFERENCED INFORMATION HAS EITHER BEEN SURVEYED, REPORTED BY THE OWNER/ OWNERS REP, AND/OR REFERENCED ON AN AS-BUILT RECORD DOCUMENTS. ALL EXISTING ELECTRICAL EQUIPMENT REFERENCE D ON THESE DRAWINGS IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. BY ACCEPTING THESE PLANS OR PROCEEDING WITH ELECTRICAL SCOPE OF WORK, AGREES TO ACCEPT LIABILITY AND SHALL RENDER THE ENGINEER OF RECORD HARMLESS FOR ANY ELECTRICAL EQUIPMENT NOT REPORTED TO THE ENGINEER DURING THE DESIGN PROCESS. THE CONTRACT TO TAKE THE REQUIRED PRECAUTIONARY MEASURES TO ENSURE ALL EXISTING ELECTRICAL EQUIPMENT IS PROTECTED IN PLACE.
- ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER.
- 36. ALL EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE DEMOLISHED SHALL BE REMOVED ENTIRELY AND ALL AFFECTED SURFACES OR STRUCTURES SHALL BE REPAIRED, REPLACED, AND/OR REFINISHED TO MATCH THE ADJACENT SURFACES OR DAMAGED ITEM(S).
- 37. FOR CLARITY ONLY RECONSTRUCTION OR NEW WORK RELATED ELEMENTS AND SELECT EXISTING FACILITIES SPECIFICALLY REQUIRING COORDINATION WITH ANY NEW WORK.
- 38. ALL CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. IN AREAS WHERE A CONCEALED MOUNTING LOCATION IS NOT AVAILABLE EQUIPMENT SHALL BE PAINTED TO MATCH THE ADJACENT
- 39. ANY PENETRATIONS BY CONDUITS OR OTHER ELECTRICAL EQUIPMENT THROUGH A FIRE RATED WALL WHETHER EXISTING OR NEW - SHALL MAINTAIN THE APPROPRIATE FIRE RATING BY SEALING THE PENETRATION WITH THE APPROPRIATE UL-LISTED FIRE-STOP MATERIAL/SYSTEM.
- 40. CONTRACTOR TO INCLUDE IN BASE BID INSTALLATION OF A MINIMUM OF 24" OF LIQUID-TITE FLEXIBLE CONDUIT BEING INSTALLED ON ALL CONDUITS AT THE ENTRANCE TO ALL SWITCHGEAR, GENERATOR, TRANSFORMERS, PANELBOARDS AND OTHER ELECTRICAL EQUIPMENT, AS WELL AS THE TRANSITION FROM LIQUID-TITE TO EMT.
- 41. ALL WORK ON EMERGENCY EQUIPMENT IS TO BE PERFORMED LIVE. CONTRACTOR IS RESPONSIBLE FOR INCLUDING ALL ' REQUIRED COSTS, EQUIPMENT PERMITS, AUTHORIZATIONS, ETC. AS REQUIRED TO PERFORM THE WORK HOT.
- 42. PROVIDE ARC FLASH LABELING AS REQUIRED PER 110.16.

#### ADDDE\/IATIONS

ABBREVIATIONS					
4S/DP	4" SQUARE BY 2 1/8" DEEP BOX	LTG, LTS	LIGHTING		
ADA	AMERICAN WITH DISABILITIES ACT	LPS	LOW PRESSURE SODIUM		
A.F.F.	ABOVE FINISH FLOOR	MAX.	MAXIMUM		
A.F.G.	ABOVE FINISH GRADE	MDF	MAIN DISTRIBUTION FRAME		
AWG	AMERICAN WIRE GAUGE	MOCP	MAXIMUM OVERCURRENT PROTECTION		
AMP, A	AMPERE	MCB	MAIN CIRCUIT BREAKER		
A.I.C.	AMPERES INTERRUPTING CAPACITY	MLO	MAIN LUGS ONLY		
	(SYMMETRICAL)	M.C.	MECHANICAL CONTRACTOR		
AF/AT	AMP FRAME, AMP TRIP	M	METER		
AHJ	AUTHORITY HAVING JURISDICTION	M/M	METER MAIN		
AS/AF	AMP SWITCH, AMP FUSE	MV	MERCURY VAPOR		
ATS	AUTOMATIC TRANSFER SWITCH	MH	METAL HALIDE		
AVG	AVERAGE	MIN.	MINIMUM		
BDF	BUILDING DISTRIBUTION FRAME	MCA	MINIMUM CIRCUIT AMPS		
BR	BRANCH	MCC	MOTOR CONTROL CENTER		
BLDG	BUILDING	MCM	THOUSAND CIRCULAR MILS		
CEC	CALIFORNIA ELECTRICAL CODE	MCP	MOTOR CIRCUIT PROTECTOR		
CIRC., CKT.	CIRCUIT	MFR.	MANUFACTURER		
CB	CIRCUIT BREAKER	MTD	MOUNTED		
CSFD	COMBINATION SMOKE FIRE DAMPER	MW	MICROWAVE		
С	CONDUIT	N	NEW EQUIP.		
C.O.	CONDUIT ONLY, COMPLETE WITH	NATS	NON AUTOMATIC DISCONNECT		
	PULLSTRING	NEC	NATIONAL ELECTRICAL CODE		
CONN	CONNECTED	NEMA	NATIONAL ELECTRICAL		
CPT	CONTROL POWER TRANSFORMER		MANUFACTURERS' ASSOCIATION		
CLCB	CURRENT LIMITING CIRCUIT BREAKER	NC	NORMALLY CLOSED		
CLF	CURRENT LIMITING FUSE	NO	NORMALLY OPENED		
СТ	CURRENT TRANSFORMER	NF	NON-FUSED		
DIA	DIAMETER	NIC	NOT IN CONTRACT		
DISC	DISCONNECT	N.T.S.	NOT TO SCALE		
DIST	DISTRIBUTION	NL "	NIGHT LIGHT		
E	EXISTING EQUIP. TO REMAIN	NO. or #	NUMBER		
E.C.	ELECTRICAL CONTRACTOR	OFCI	OWNER FURNISHED, CONTRACTOR		
EMS	ENERGY MANAGEMENT CONTROL	a	INSTALLED.		
<b>EN4T</b>	SYSTEM	%Z	PERCENT IMPEDANCE		
EMT	ELECTRICAL METALLIC TUBING	PH. or Ø	PHASE		
ENT	ELECTRICAL NON-METALLIC TUBING	PC	PHOTOCELL		
EWC	ELECTRIC WATER COOLER	P.C.	PLUMBING CONTRACTOR		
E.P.O.	EMERGENCY POWER OFF	P	POLE		
E-O-L	END-OF-LINE CIRCUIT TERMINATOR.	PVC	POLY VINYL CHLORIDE		
EF	EXHAUST FAN	PDU	POWER DISTRIBUTION UNIT		
E/G	EQUIPMENT GROUND (GREEN)	PRIMARY	OVER 600 VOLTS		
EP ED*	EXPLOSION PROOF	PROVIDE	FURNISH, INSTALL AND CONNECT.		
ER*	EXISTING EQUIP. TO BE REOLCATED	PT	POTENTIAL TRANSFORMER		
CDT*	(* CORRESPONDS TO NEW LOCATION)	PA DEC DECEDT	PUBLIC ADDRESS		
ERT*	NEW LOCATION FOR REOLCATED EQUIP.	REC, RECEPT	RECEPTACLE		
ET or!	(* CORRESPONDS TO PREVIOUS LOCATION) FEET	REF	REFRIGERATOR		
FT or '	. —— .	RGS	RIGID GALVANIZED STEEL		
FA	FIRE ALARM	RMS	ROOT MEAN SQUARE		

#### U.O.N. U.P.S. UNINTERRUPTABLE POWER SYSTEM VARIABLE AIR VOLUME VOLTS VOLT AMPERES **VOLTAGE DROP** WEATHERPROOF WIRE XFMR TRANSFORMER XX EXISTING EQUIP. TO BE DEMO'D

SCS

SFD

SMACNA

TEL/DATA

T.V.S.S.

U.G.P.S.

SHORT CIRCUIT CURRENT

SHEET METAL & AIR COND.

CONTRACTORS' NAT'L ASSOC.

TRANSIENT VOLTAGE SURGE

UNDERGROUND PULL SECTION

UNLESS OTHERWISE NOTED

SMOKE FIRE DAMPER

TELEPHONE AND DATA

SECONDARY 600 VOLTS AND LESS

SOLIARE

TYPICAL

TIMECLOCK

TELEVISION

SUPPRESSION

STRUCTURED CABLING SYSTEM

FULL LOAD AMPS

REFRIGERATION

HAND-OFF-AUTO

CONDITIONING

HORSEPOWER

JUNCTION BOX

DEGREE KELVIN

KILOWATT HOUR

INCHES

KILOWATT

GROUND FAULT CIRCUIT INTERRUPTER.

GROUNDING ELECTRODE CONDUCTOR

GROUND FAULT PROTECTION

HEATING AIR CONDITIONING

HEATING, VENTILATING AND AIR

HEIGHT, WIDTH, DEPTH, LENGTH

INTERMEDIATE DISTRIBUTION FRAME

HIGH INTENSITY DISCHARGE

HIGH PRESSURE SODIUM

THOUSAND CIRCULAR MILS

LONG CONTINUOUS LOAD

ISOLATED GROUND

KILOVOLT AMPERES

GROUND

GRD

GFCI

GFP

GEC

HACR

H.,W.,D.,L.

HPS

IN. or "

I/G

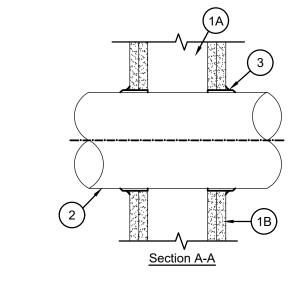
JBOX

KCMIL

KW

KWH

LCL



SYSTEM NO. W-L-1001 F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3) T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3) L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

- WALL ASSEMBLY- THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTURCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 AND U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC. B. WALLBOARD, GYPSUM \* - NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE
- GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAMETER OF OPENING IS 13-1/2 IN. PIPE OR CONDUIT - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 12 IN
- DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE. NOM 12 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 HR. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. FILL, VOID OR CAVITY MATERIAL\* - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE
- BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT TIS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

BELOW:			
MAX PIPE	ANNULAR	F	Т
OR CONDUIT	SPACE,	RATING	RATING
DIAM, IN	IN	HR	HR
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
4	0 TO 1-1/2#	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 HR. #0 TO 1-1/2 IN. ANNULAR SPACE APPLIES ONLY WHEN TYPE CP-25 WB+ CAULK IS USED AND ONLY WHEN THE MIN THICKNESS OF THE GYPSUM WALLBOARD IS 5/8 IN. FOR 1 HR RATED WALLS AND 1-1/4 IN. FOR 2 HR RATED WALLS.

MINNESOTA MINING & MFG. CO. - CP 25WB+ \* BEARING THE UL CLASSIFICATION MARKING

NOTE: WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS ARE FOR REFERENCE ONLY. THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR OSHPD FIELD REVIEW AND APPROVAL PRIOR TO INSTALLATION. CBC 714.1

#### POWER SYMBOLS

- DUPLEX RECEPTACLE. MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED. "TV" ADJACENT TO DEVICE INDICATES RECEPTACLE IS TO BE MOUNTED AT 96" (OR HEIGHT REFERENCED) COORDINATE LOCATIONS AND MOUNTING REQUIREMENTS WITH SIGNAL DRAWINGS WHEN APPLICABLE.
- DUPLEX, GFCI RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED.
- WP INDICATES WEATHERPROOF, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.
- WALL MOUNTED JUNCTION BOX. MOUNTING HEIGHT AS NOTED. 4S/DP MINIMUM OR AS REQUIRED BY N.E.C.. JUNCTION BOX, MOUNTED IN ACCESSIBLE CEILING FOR APPLICATION DENOTED ON PLAN. 4S/DP MINIMUM OR
- AS REQUIRED BY N.E.C.. SINGLE POLE SWITCHES, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS. SUBSCRIPTS AT
- SYMBOL INDICATE THE FOLLOWING: 2 - DOUBLE POLE LV - LOW VOLTAGE
- 3 THREE WAY P - PILOT LIGHT 4 - FOUR WAY R - REMOTE CONTROL
- K KEY OPERATED M - 20A MOTOR RATED START SWITCH WITH THERMAL OVERLOAD PROTECTION NOTE: ALL WALL SWITCHES CONTROLLING EMERGENCY CIRCUITS SHALL BE ENGRAVED WITH "EMERGENCY"
- NOTE: PROVIDE AND INSTALL ONLY HEAVY DUTY HOSPITAL GRADE TAMPER RESISTANT DEVICES AND EQUIPMENT SUITABLE FOR USE AND INSTALLATION IN A BEHAVIORAL HEALTH FACILITY. ALL COVER PLATES FOR LIGHTING SWITCHES, J-BOXES, RECEPTACLES, ETC. ARE TO TO BE CONSTRUCTED OF STAINLESS STEEL ANTI-MICROBIAL AND ANTI-MRSA FINISHES.

NOTE: ALL LIFE SAFETY AND CRITICAL FEEDER/BRANCH CIRCUITS WILL NEED TO BE MECHANICALLY PROTECTED TO COMPLY WITH CEC 517.30(C)(3).

#### **BRANCH CIRCUIT SYMBOLS**

HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS AND NUMBER OF CONDUCTORS IN CONDUIT RUN, PROVISION FOR 2#12 AWG, 1#12 G MINIMUM UNLESS OTHERWISE NOTED.

CONDUIT STUB OUT, CAP, MARK AND RECORD ON AS-BUILT DRAWINGS CONDUIT CONTINUATION.

> FLEXIBLE CONNECTION AS REQUIRED. NUMBER OF CONDUCTORS AS REQUIRED. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION DOWN WALL TO FLOOR BELOW CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION UP WALL TO FLOOR ABOVE

#### **ANNOTATIONS**

MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.

DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.

△ DELTA CONFIGURATION

LIGHTING FIXTURE DESIGNATION

PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED REVISION REFERENCE.

WYE CONFIGURATION GROUND

#### PIPING, DUCTWORK AND ELEC. DIST. SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 CHAPTER 13 AS DEFINED IN ASCE 7-16 SECTION 13.6, AND 2022 CBC, SECTIONS 1613A AND 1617A.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. 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), PLUMING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP□MD□PP□E☑ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

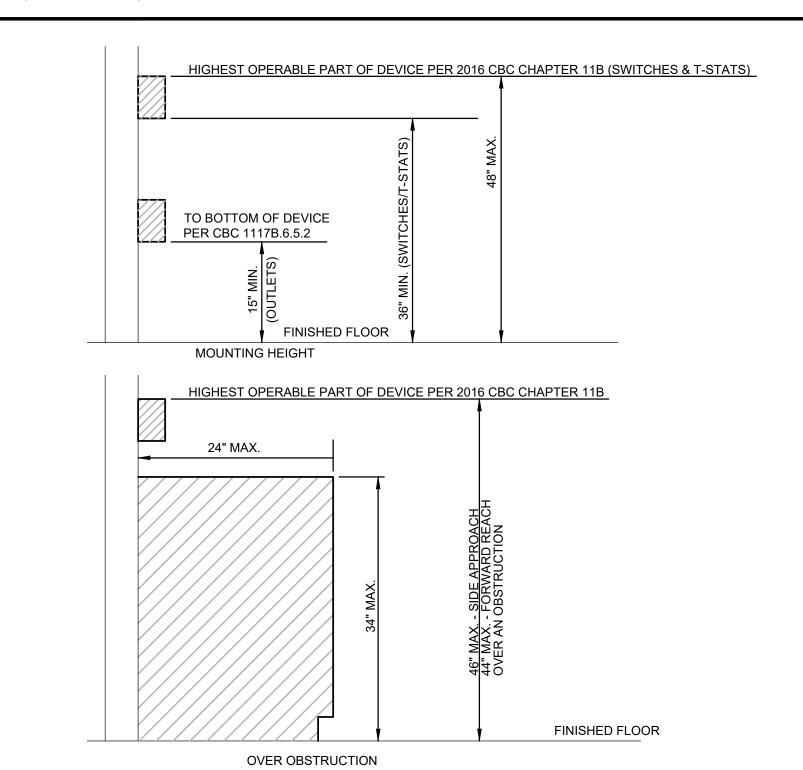
MP□MD□PP□E□ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # 0043 or 0052 ALL CONDUITS 3" AND LARGER ARE TO BE SEISMICALLY BRACED/ANCHORED. CONTRACTOR TO REFER TO STRUCTURAL

#### DRAWINGS FOR ANCHORAGE DETAILS AND REQUIREMENTS. SEISMIC BRACING NOTES FOR DEFERRED SUBMITTALS

- SUPPORT AND BRACING FOR CONDUIT INSTALLED WITH THIS SCOPE OF SERVICES IS TO BE PROVIDED AND INSTALLED PER OPM-0043 MASON SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES OR OTHER
- LAYOUT DRAWINGS IDENTIFYING/DEMONSTRATING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT OSHPD PRE-APPROVALS ARE TO BE SUBMITTED FOR USE BY THE INSPECTOR OF RECORD AND OSHPD FIELD STAFF. THE LAYOUT DRAWINGS ARE TO BE PREPARED BY THE SUBCONTRACTOR AND SIGNED BY A LICENSED STRUCTURAL ENGINEER PER ASCE 7 CHAPTER 13 AS MODIFIED BY 2022 CBC SECTIONS 1613A AND 1617A. REFERENCES TO DETAILS FROM THE OSHPD PRE-APPROVAL ARE TO BE FOR AN ENTIRE DETAIL AS SUBMITTED OR REFERENCE ARE TO BE PREPARED FOR EACH ASPECT OF A SUBMITTED DETAIL. CUSTOM DETAILS ARE TO BE PROVIDED FOR SITUATIONS WHERE OSHPD PRE-APPROVALS DO NOT APPLY. AT LEAST 4-WEEKS PRIOR TO BEGINNING INSTALLATION FOUR COPIES OF THE PLANS ARE TO BE SUBMITTED TO THE ARCHITECT OF RECORD WHO WILL SUBMIT THEM TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL. AFTER THIS APPROVAL DRAWINGS WILL BE SUBMITTED TO THE OSHPD DISTRICT STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. THE PLANS SHALL BE COORDINATED WITH THE PLANS AND OTHER TRADES. A COPY OF THE CHOSEN BRACING SYSTEM INSTALLATION GUYED/MANUAL IS
- THE STRUCTURAL ENGINEER WILL DETERMINE THE APPROPRIATE SEISMIC FORCES BASED ON THE DESIGN CRITERIA INCLUDED IN THE STRUCTURAL DRAWINGS.

REQUIRED TO BE ON THE JOBSITE PRIOR TO THE START OF INSTALLATION.

ONCE THE LOCATIONS OF ALL CONDUIT HAVE BEEN ESTABLISHED, THE STRUCTURAL ENGINEER MUST CHECK THE ADEQUACY OF THE SUPPORTING STRUCTURE TO ENSURE THAT THE ORIGINAL DESIGN IS STILL ADEQUATE. THE INSPECTOR OF RECORD IS TO ENSURE THAT ALL WORK IS PROPERLY INSTALLED PER THE APPLICABLE OSHPD PRE-APPROVAL.



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-122083 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 10/18/2023



19900 MacArthur Boulevard I Suite 1000 Irvine I California I 92612 949.250.0880 I FAX 949.250.0882 www.westgroupdesigns.com



2100 W Orangewood Ave Suite 165 | Orange, CA 92868 PARK VIEW PREP

SCHOOL OF 21ST **CENTURY LEARNING** 

REGISTRATION/SIGNATURE

**ELECTRICAL GENERAL** NOTES & SYMBOLS LIST

HEET NUMBER

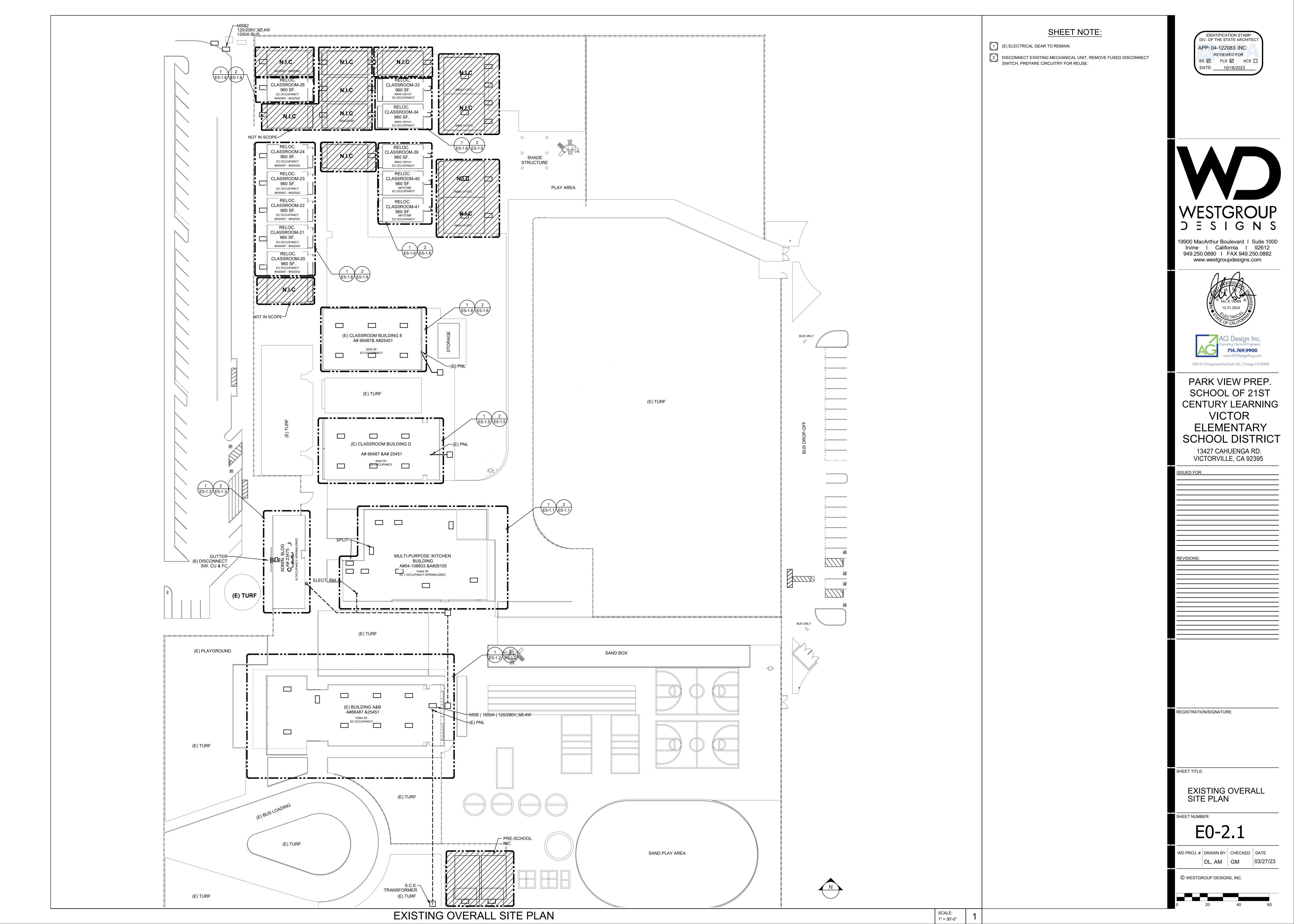
WD PROJ. # DRAWN BY: CHECKED DATE

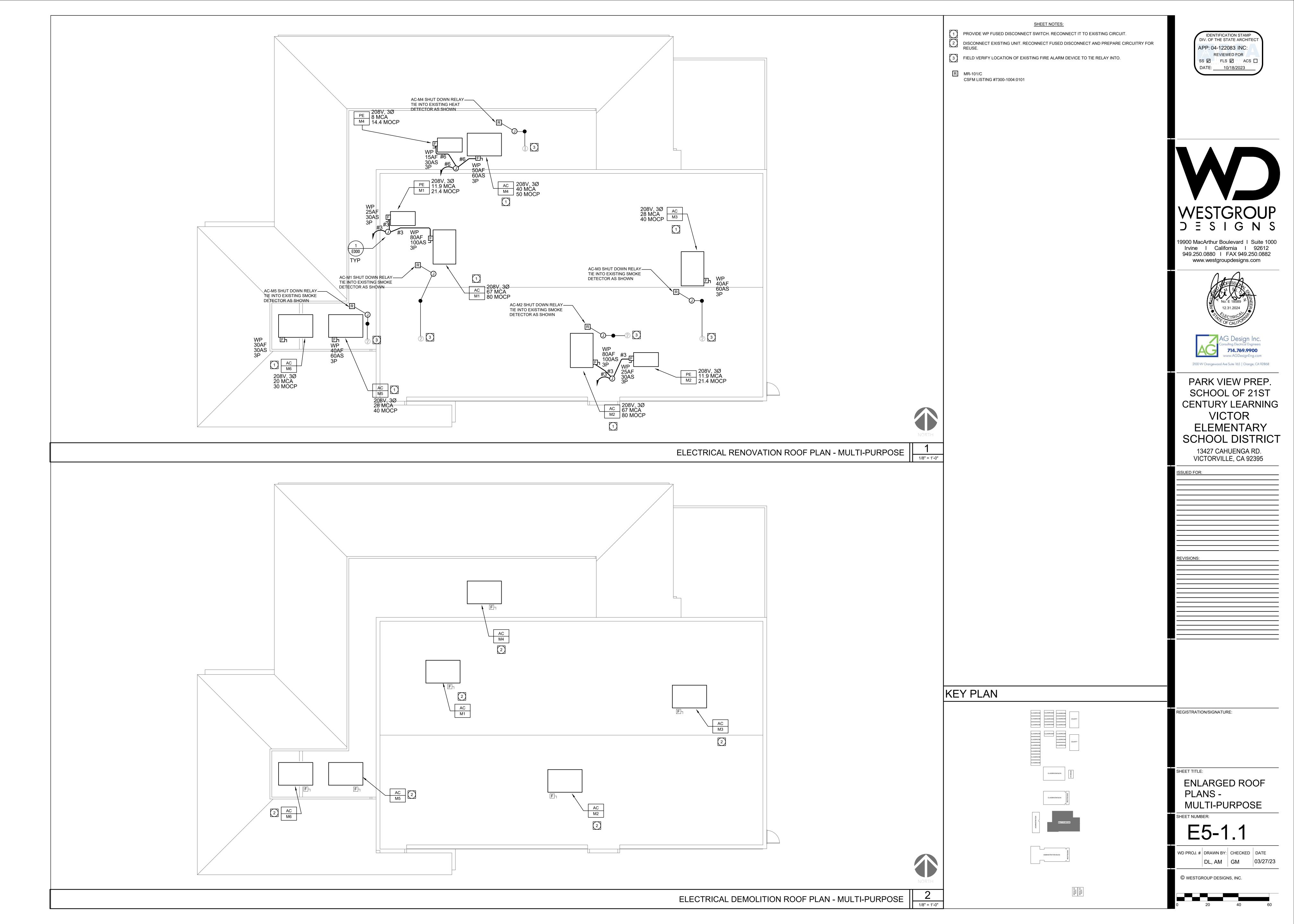
DL, AM | GM | 03/27/23

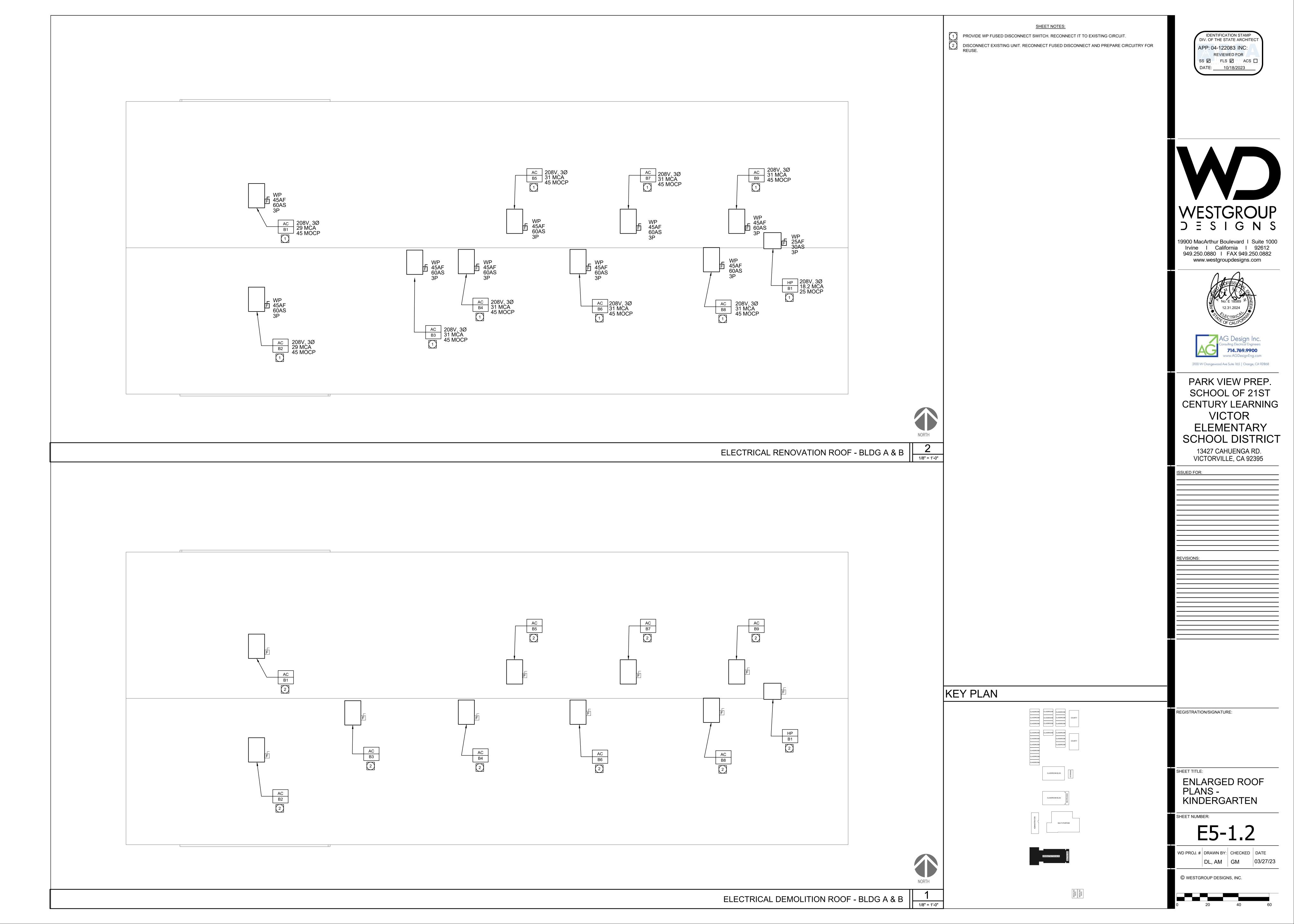
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FIRE RATED PENETRATION DETAIL (TYP.) 02

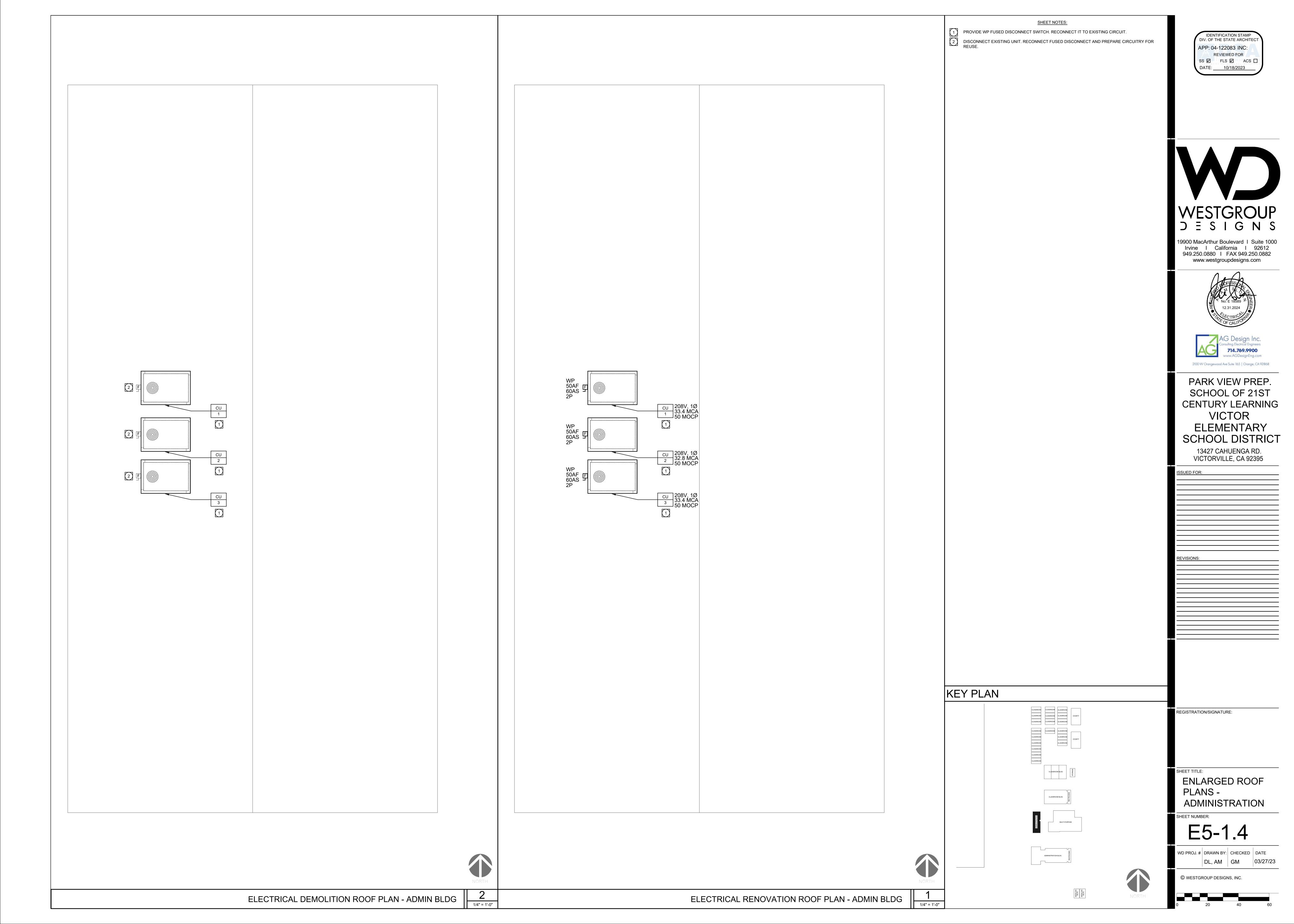
ADA DEVICE MOUNTING DETAIL

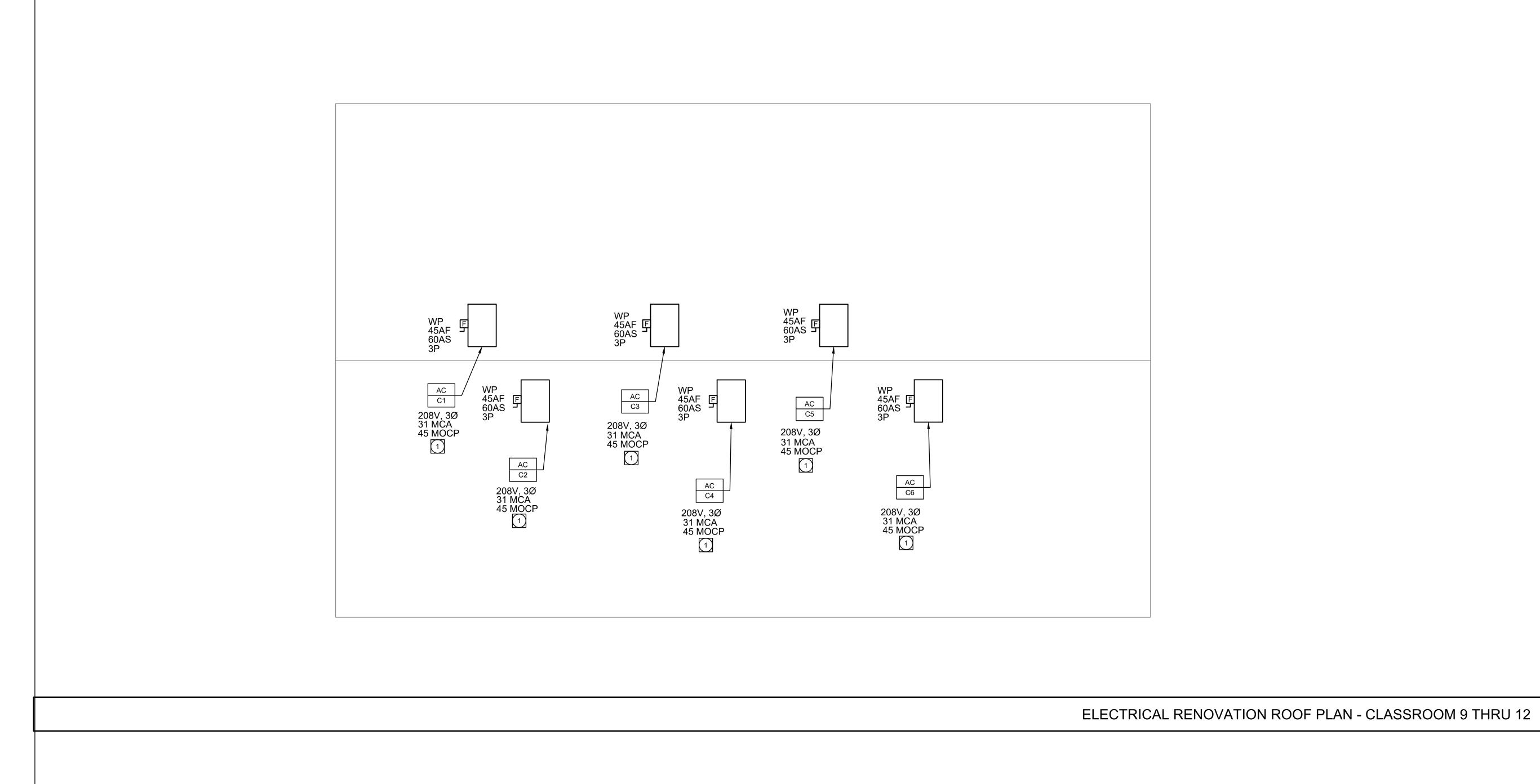












2 AC C1

SHEET NOTES:

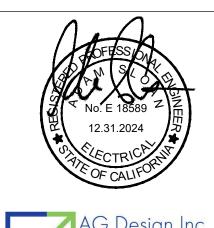
PROVIDE WP FUSED DISCONNECT SWITCH. RECONNECT IT TO EXISTING CIRCUIT.

DISCONNECT EXISTING UNIT. RECONNECT FUSED DISCONNECT AND PREPARE CIRCUITRY FOR REUSE.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122083 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆



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PARK VIEW PREP. SCHOOL OF 21ST CENTURY LEARNING VICTOR ELEMENTARY SCHOOL DISTRICT 13427 CAHUENGA RD.

VICTORVILLE, CA 92395

_			

REGISTRATION/SIGNATURE:

ENLARGED ROOF PLANS -CLASSROOM 9 THRU

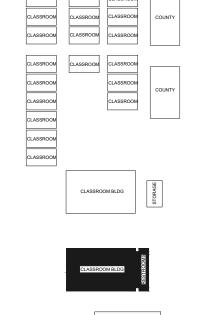
E5-1.5

DL, AM GM 03/27/23

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KEY PLAN

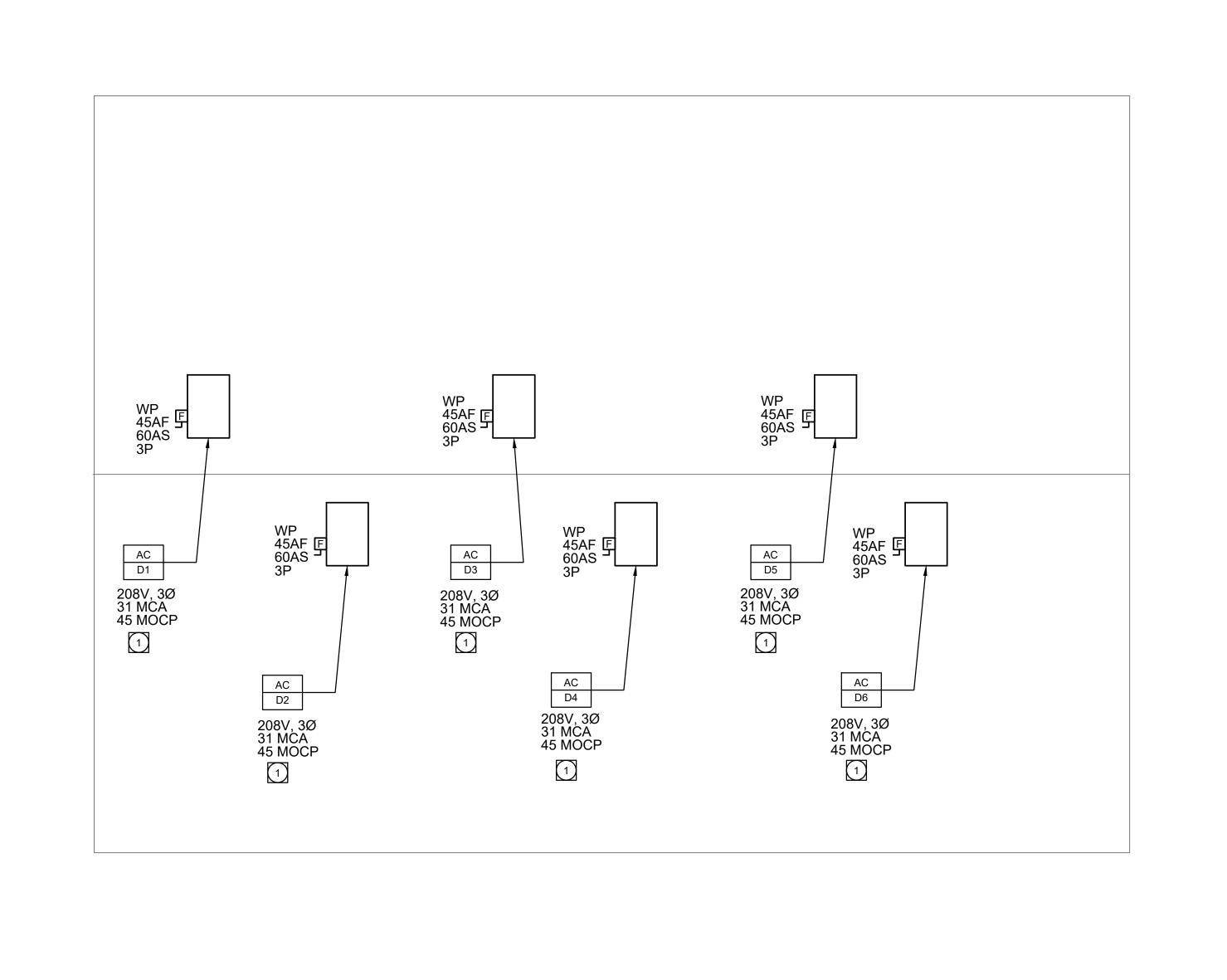






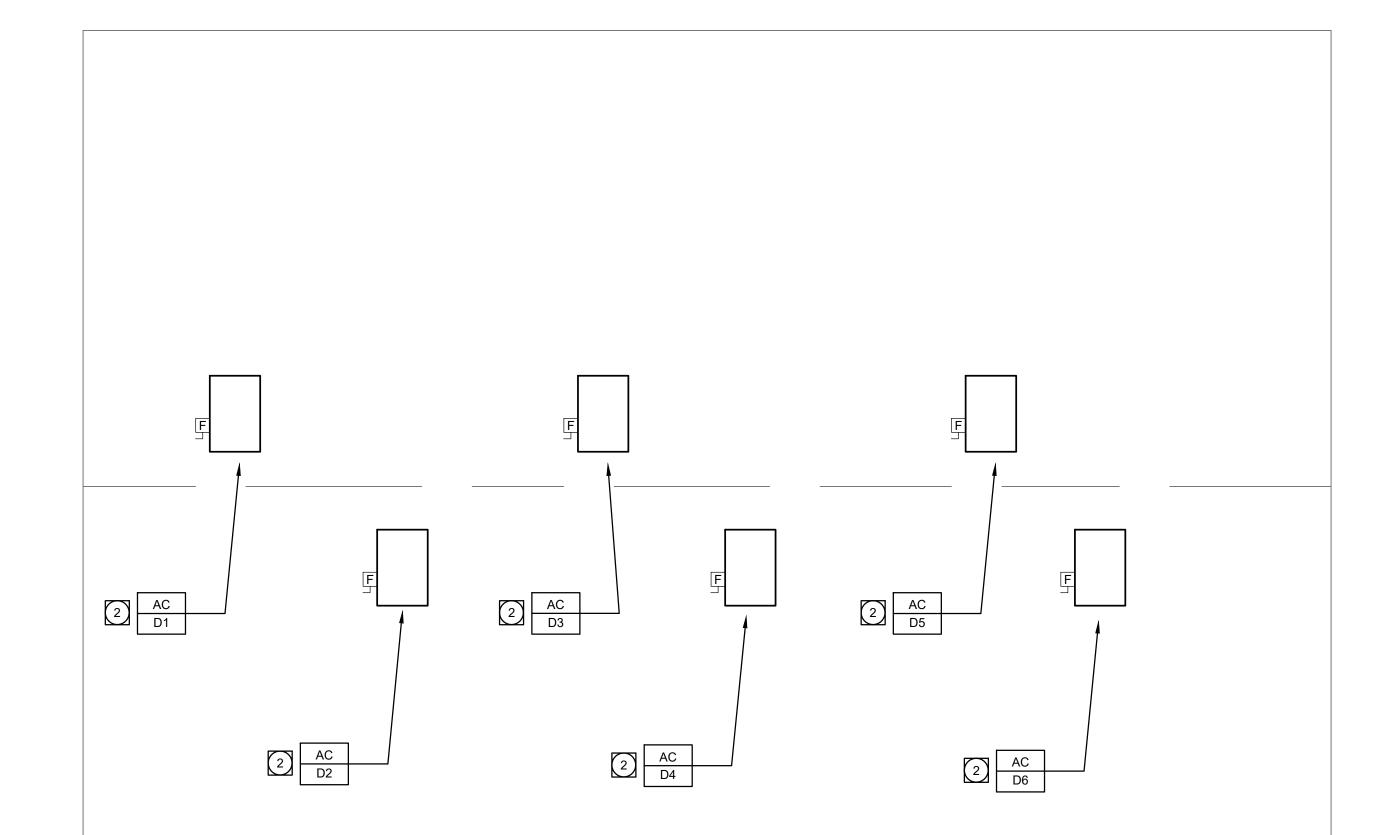


ELECTRICAL DEMOLITION ROOF PLAN - CLASSROOM 9 THRU 12



NORTH

ELECTRICAL RENOVATION ROOF PLAN - CLASSROOM 13 THRU 18





1/8" = 1'-0"

SHEET NOTES:

PROVIDE WP FUSED DISCONNECT SWITCH. RECONNECT IT TO EXISTING CIRCUIT.

DISCONNECT EXISTING UNIT. RECONNECT FUSED DISCONNECT AND PREPARE CIRCUITRY FOR REUSE.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122083 INC:

REVIEWED FOR SS FLS ACS DATE: 10/18/2023



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SCHOOL OF 21ST
CENTURY LEARNING
VICTOR
ELEMENTARY
SCHOOL DISTRICT
13427 CAHUENGA RD.

VICTORVILLE, CA 92395
SSUED FOR:

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REVISIONS:

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SHEET TITLE:
ENLARGED ROOF
PLANS CLASSROOM 13
THRU 18
SHEET NUMBER:

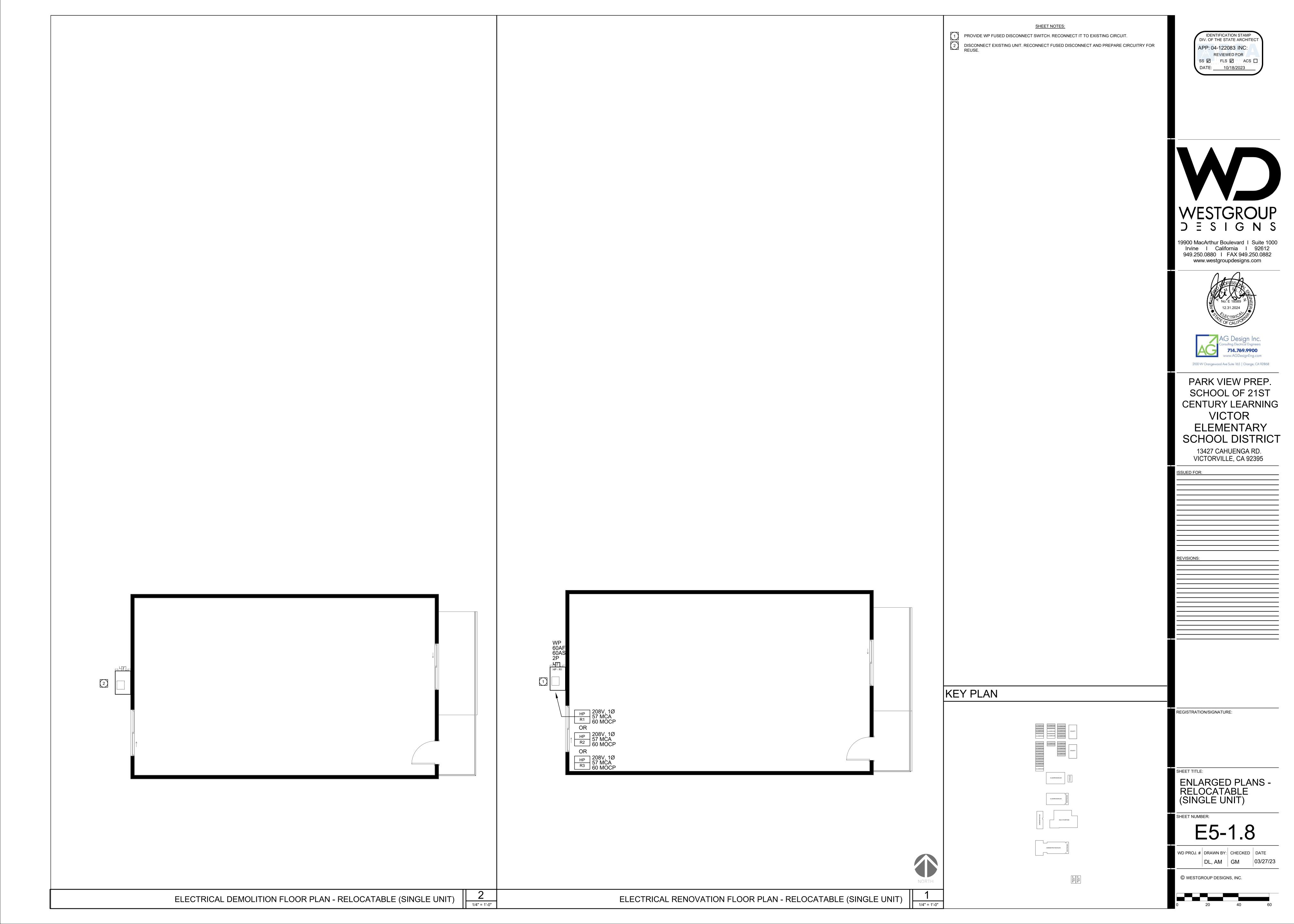
REGISTRATION/SIGNATURE:

E5-1.6

WD PROJ. # DRAWN BY: CHECKED DATE
DL, AM GM 03/27/23

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KEY PLAN



ADD'L.	ABBREVIATIONS
ALT. ACI	ALTERNATE AMERICAN CONCRETE INSTITUTE
APA ASTM AWS	AMERICAN PLYWOOD ASSOCIATION AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WELDING SOCIETY
A.B. APPROX.	ANCHOR BOLT(S) APPROXIMATELY
ARCH.	ARCHITECT / ARCHITECTURAL
@	AT
B. PL.	BASE PLATE
BM.	BEAM
BRG.	BEARING
BTWN.	BETWEEN
BLK.	BLOCK
BLKG.	BLOCKING
B.E.	BOTH ENDS
BOT. OR BOTT.	BOTTOM
B.N.	BOUNDARY NAILS
BLDG. C	BUILDING  CAMBER
CBC	CALIFORNIA BUILDING CODE
CIP	CAST IN PLACE
CLG. CJ CJP	CEILING CEILING JOIST OR CONSTRUCTION JOINT OR CONTROL JOI COMPLETE JOINT PENETRATION WELD
©	CENTER LINE
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
COND.	CONDITION
CONN.	CONNECTION
CONSTR. CONT'D CONT.	CONSTRUCTION CONTINUED CONTINUOUS
CONTR.	CONTRACTOR
CSK.	COUNTERSINK
DL	DEAD LOAD
DP.	DEEP
DEMO.	DEMOLISH
DTL. OR DET.	DETAIL
DIAG.	DIAGONAL
DIA. OR Ø	DIAMETER
DIM.	DIMENSION
DO	DITTO
DBL.	DOUBLE
D.F.	DOUGLAS FIR
DWL.	DOWEL
DN.	DOWN
DWG.	DRAWING
EA. E.F. E.S.	EACH EACH FACE EACH SIDE
E.S.	EACH SIDE
E.W.	EACH WAY
E.N.	EDGE NAIL(S)
ELEC. ELEV.	ELECTRICAL ELEVATION
EMBED.	EMBEDMENT
ENG.	ENGINEER
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXCAV.	EXCAVATION
(E)	EXISTING
EXP.	EXPANSION
EJ	EXPANSION JOINT
ES ESR	EVALUATION SERVICE EVALUATION SERVICE REPORT
EXT. F.O.C.	EXTERIOR  FACE OF CONCRETE
F.O.M. F.O.S.	FACE OF MASONRY FACE OF STUD OR FACE OF SLAB
F.S.	FAR SIDE
FIN.	FINISH
F.F.	FINISHED FLOOR
FHWS	FLAT HEAD WOOD SCREW
FLR.	FLOOR
FD	FLOOR DRAIN
FTG.	FOOTING
FNDN.	FOUNDATION
FRMG.	FRAMING
GALV.	GALVANIZE
GA.	GAUGE
GLU—LAM	GLUED LAMINATED
GLB	GLUED LAMINATED BEAM
GR.	GRADE
HGR.	HANGER
HR	HARDROCK
HDR.	HEADER
HT.	HEIGHT
HD	HOLD DOWN
HSS HORIZ.	HOLD DOWN HOLLOW STRUCTURAL SECTION HORIZONTAL
INFO.	INFORMATION
I.D.	INSIDE DIAMETER
INT. IBC	INSIDE DIAMETER INTERIOR INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
INV.	INVERT
JST.	JOIST
KP	KING POST
KSI	KIPS PER SQUARE INCH
LAM.	LAMINATED
LDGR.	LEDGER
LT. WT. OR LW	LIGHT WEIGHT
LL	LIVE LOAD
LG.	LONG OR LENGTH
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO-HY	LOW HYDROGEN
M.B. MFR. MAS.	MACHINE BOLT(S) MANUFACTURER MASONRY
M.O.	MASONRY OPENING
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MU N.F.	MECHANICAL UNIT  NEAR FACE
N.S.	NEAR SIDE
NSA	NELSON STUD ANCHOR
(N)	NEW
NIC.	NOT IN CONTRACT
NTS.	NOT TO SCALE
NO. OR #	NUMBER
O.C. OPNG. OPP.	ON CENTER OPENING OPPOSITE
0.H.	OPPOSITE HAND
0.D.	OUTSIDE DIAMETER
PHWS	PAN HEAD WOOD SCREW
P.J.	PANEL JOINT
d	PENNY
PIL.	PILASTER
PL. OR PL PLY. PW.I	PLATE (STEEL OR WOOD) PLYWOOD WEB JOIST
PWJ PCF PSF	PLYWOOD WEB JOIST POUNDS PER CUBIC FOOT POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTDF PL	PRESSURE TREATED DOUGLAS FIR PROPERTY LINE
RAD.	RADIUS
RFTR.	RAFTER
REF.	REFERENCE REINFORCING
REINF. REQ'D	REQUIRED

# LIST OF ABBREVIATIONS (CONT'D)

```
R.O.
                      ROUGH OPENING
SCHED
                       SCHEDULE
                       SECTION
                       SELECT
SFP
                       SEPARATION
SFRS.
                       STRUCTURAL FORCE RESISTING SYSTEM
                       SHEATHING
                       SHEET METAL
                       SHEET METAL SCREWS
                       SIMPSON
                       SPACING
                       SPECIFICATION
                       SQUARE
STGR.
                       STAGGER
                       STAINLESS STEEL
                       STANDARD PIPE COLUMN
                       STANDARD
                       STEEL
STIFF.
                       STIFFENER
STIRR.
                       STIRRUP
STRUCT.
                      STRUCTURAL
SYM.
                       SYMMETRICAL
                       TAPERED STEEL GIRDER
                       1,000 POUNDS
K OR KIP
                        THROUGH
                       TOE NAIL
                       TONGUE AND GROOVE
                       TOP AND BOTTOM
                       TOP OF FOOTING
                       TOP OF LEDGER
                       TOP OF STEEL OR TOP OF SHEATHING
T.O.S.
T.O.W.
                       TOP OF WALL
```

TOTAL LOAD

VERIFY IN FIELD

WELDED WIRE FABRIC

VERTICAL

WITH

WOOD

WITHOUT

WOOD-I-JOIST

WORK POINT

WOOD SCREW

UNLESS NOTED OTHERWISE

TUBE STEEL TYPICAL

#### **GENERAL**

U.N.O.

VERT.

- THESE STRUCTURAL DRAWINGS AND SPECIFICATIONS, INCLUDING ANY ADDENDA (COLLECTIVELY "THE PLANS") INCORPORATE ALL LEGAL AND INDUSTRY REQUIREMENTS AND STANDARDS INCLUDING WITHOUT LIMITATION THE FOLLOWING:
- THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1 (CALIFORNIA ADMINISTRATIVE CODE), 2022 EDITION.
- THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CALIFORNIA BUILDING CODE), 2022 EDITION.
- OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND
- THE FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL CODE (THE "RIGHT TO REPAIR ACT").
- THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.
- THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES 2. AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.
- 2. THE PLANS REPRESENT ONLY THE FINISHED STRUCTURE, AND THEY ARE NOT INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES. IN PARTICULAR AND WITHOUT LIMITATION, THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL EXCAVATION, DEMOLITION, SHORING AND ERECTION PROCEDURES AND FOR ANY AND ALL SAFETY PROGRAMS AND PRECAUTIONS.
- 3. IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE STRUCTURAL WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM AN APPROPRIATE OWNER REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT.
- 4. IN INTERPRETING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
- WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
- SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- WORK NOT PARTICULARLY SHOWN OR SPECIFIED SHALL BE THE SAME AS SIMILAR PARTS THAT ARE SHOWN OR SPECIFIED.
- SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE.
- 5. IN IMPLEMENTING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
- BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED; AND THE CONTRACTOR IS REQUIRED TO CAREFULLY REVIEW THE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AND ASSUMES THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.
- 6. SUBMITTALS WILL BE REVIEWED BY THE STRUCTURAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN AIA DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE
- SUBMITTAL. 7. IN NO EVENT WILL ANY SITE VISITS BY THE STRUCTURAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH
- MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. 8. COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF STRUCTURAL ENGINEER FOR THE PROJECT, INCLUDING WITHOUT LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. STRUCTURAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, O THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.

# PROJECT DESIGN CRITERIA

1. BASIC DESIGN LIVE LOADS:

ROOF: 20 PSF (REDUCIBLE)

2. SNOW LOADS GROUND SNOW LOAD,  $P_G = 5$  PSF

3. WIND LOADS

RISK CATEGORY: III EXPOSURE CATEGORY: C BASIC DESIGN WIND SPEED (3-SECOND GUST), V = 115 MPH ALLOWABLE STRESS DESIGN WIND SPEED,  $V_{ASD} = 89 \text{ MPH}$ VELOCITY PRESSURE EXPOSURE COEFFICIENT, KZ = VARIES TOPOGRAPHIC FACTOR,  $K_{Zt} = 1.0$ WIND DIRECTIONALITY FACTOR,  $K_d = 0.85$ GROUND ELEVATION FACTOR, Ke = 1.00 GUST EFFECT FACTOR, G = 0.85

A. COMPONENTS & CLADDING (ASCE 7-16, CH. 30)

 $q_h = 0.00256 K_z K_{zt} K_d V_{ULT}^2$ 

 $P = q_h [(GC_P) - (GC_{Pi})]$ EXTERNAL PRESSURE COEFFICIENT,  $(G_{CP}) = [FIG. 30.3-1 THRU 30.3-7]$ INTERNAL PRESSURE COEFFICIENT,  $(GC_{Pi})$  = TABLE 26.13-1

3. EARTHQUAKE LOADS SEISMIC DESIGN CRITERIA

> (BASES ON ATC HAZARD SEISMIC DESIGN SERVICE)  $S_S = 1.228$  $S_1 = 0.475$ SITE CLASS: D - DEFAULT  $S_{DS} = 0.982$

RISK CATEGORY:

# **DIMENSIONS**

- 1. DIMENSIONS SHALL BE DEFINED TO INCLUDE BOTH HORIZONTAL DIMENSIONS AND VERTICAL DIMENSIONS (ELEVATIONS).
- 2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
- 3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT NOTED ON STRUCTURAL
- 4. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
- 5. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND/OR ROOF ELEVATIONS.
- 6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

## **EXISTING CONDITIONS**

- ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY.
- WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

## **DEMOLITION**

- 1. ALL DEMOLITION SHALL BE CARRIED ON IN SUCH A WAY AS NOT TO DAMAGE EXISTING ELEMENTS, WHICH ARE TO REMAIN IN THE FINISHED STRUCTURE.
- ALL ELEMENTS OF THE STRUCTURE, WHICH ARE TO REMAIN, AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDITIONAL COST. EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE, IN ORDER TO MITIGATE DAMAGE.
- 3. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL EXISTING ELEMENTS THAT ARE NECESSARY FOR THE INSTALLATION OF ALL NEW WORK.
- DO NOT CORE OR CUT NEW OPENINGS IN EXISTING CONCRETE OR MASONRY WITHOUT SPECIFIC APPROVAL OF THE STRUCUTRAL ENGINEER. SUBMIT DIMENSIONED LAYOUT OF ALL PROPOSED NEW OPENINGS TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CORING OR CUTTING OPENINGS. CONTRACTOR. AT HIS OWN EXPENSE, SHALL USE NON-DESTRUCTIVE METHODS TO LOCATE EXISTING REINFORCING. EXISTING REINFORCING SHALL NOT BE CUT WITHOUT SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER.

#### STRUCTURAL STEEL AND MISCELLANEOUS METAL

- ALL PORTIONS OF WORK PERTAINING TO STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 22A.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-992, UNLESS NOTED
- 3. CHANNELS, ANGLES AND PLATES SHALL CONFORM TO ASTM A-36, UNLESS NOTED
- 4. ALL BOLTS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE: ANCHOR BOLT RODS: ASTM F1554, GRADE 36
- TYPICAL STEEL CONNECTIONS: ASTM F3125, GRADE A325N OR F1852 (NON-SLIP-CRITICAL) MISCELLANEOUS CONNECTIONS NOT NOTED OTHERWISE: ASTM A-307
- 7. HIGH STRENGTH BOLTS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED
- JOINT ASSEMBLIES USING HIGH-STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS,
- BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325
- TWIST OFF TYPE, NUTS SHALL CONFORM TO ASTM A-563, AND WASHERS SHALL CONFORM TO ASTM F-436. PAINT SHALL NOT BE PERMITTED ON CONTACT SURFACES UNLESS NOTED
- OTHERWISE. CONTACT SURFACES OF BOLTED PARTS SHALL BE DESCALED AND FREE OF DIRT, OIL, BURRS, PITS, AND OTHER DEFECTS WHICH PREVENT SOLID SEATING OF PARTS. SLIP-CRITICAL JOINT ASSEMBLIES SHALL BE FULLY PRE-TENSIONED BY
- TURN-OF-NUT TIGHTENING, CALIBRATED WRENCH TIGHTENING, INSTALLATION OF ALTERNATE DESIGN BOLTS OR BY DIRECT TENSION INDICATOR TIGHTENING. 8. ANCHOR BOLTS SHALL BE HEX HEADED. BENT BAR ANCHORS SHALL NOT BE
- 9. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR
- 10. ALL WELDING SHALL CONFORM TO THE STRUCTURAL WELDING CODE STEEL, AWS D1.1 AND STRUCTURAL WELDING CODE SEISMIC SUPPLEMENT AWS D1.8, BY THE AMERICAN WELDING SOCIETY. WELDING RODS SHALL BE E70XX.
- 11. THE FILLER METAL FOR ALL WELDING SHALL HAVE A NOTCH TOUGHNESS OF NOT LESS THAN 20 FT-LBS AT 0 DEGREES F. AS MEASURED BY A STANDARD CHARPY V-NOTCH TEST, ASTM E23, IN ACCORDANCE WITH THE APPLICABLE FILLER METAL SPECIFICATION REFERENCED IN AWS D1.1 AND SEISMIC SUPPLEMENT AWS D1.8.
- 12. ALL DEMAND CRITICAL WELDS SHALL HAVE A NOTCH TOUGHNESS OF NOT LESS THAN 40 FT-LBS AT 70 DEGREES F, AS MEASURED BY STANDARD CHARPY V-NOTCH TEST, ASTM E23, IN ACCORDANCE WITH THE APPLICABLE FILLER METAL SPECIFICATION REFERENCED IN AWS D1.1 AND SEISMIC SUPPLEMENT AWS D1.8.
- 13. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.

REVIEW AND APPROVAL PRIOR TO FABRICATION.

- 14. ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS. SIZE OF WELDS SHALL BE BASED ON AWS D1.1 FOR THICKER PART JOINED.
- 15. BOLT HOLES SHALL BE  $\frac{1}{16}$ " LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE. BOLT HOLES AT COLUMN BASEPLATES MAY BE  $rac{3}{16}$ " maximum larger in diameter than nominal size of anchor bolt used, UNLESS NOTED OTHERWISE.
- 16. DO NOT PAINT STRUCTURAL STEEL SURFACES THAT ARE TO RECEIVE SPRAY-APPLIED FIREPROOFING OR TO BE ENCASED IN CONCRETE OR MASONRY.
- 17. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL ITEMS, INCLUDING CONNECTORS, EXPOSED TO THE WEATHER SHALL BE HOT-DIPPED GALVANIZED, AFTER FABRICATION.
- 18. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC.
- 19. OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY
- 20. THE CONTRACTOR SHALL IDENTIFY THE PROTECTED ZONES USING ANY SUITABLE NON-DESTRUCTIVE MEANS (SUCH AS YELLOW PAINT).
- 21. ONCE THE STEEL DECKING IS IN PLACE, THE CONTRACTOR SHALL USE ANY SUITABLE NON-DESTRUCTIVE MEANS TO IDENTIFY THE PROTECTED ZONES PRIOR TO THE INSTALLATION OF SHEAR STUDS. DECK ATTACHMENTS.
- 22. AFTER SPRAYED ON FIRE-RESISTIVE MATERIAL HAS BEEN APPLIED. THE CONTRACTOR SHALL USE ANY SUITABLE NON-DESTRUCTIVE MEANS TO IDENTIFY THE PROTECTED ZONES FOR OTHER DISCIPLINES TO PRECLUDE UNAUTHORIZED ATTACHMENTS.

#### STEEL DECKING

- 1. SEE STRUCTURAL STEEL AND MISCELLANEOUS METAL NOTES FOR ADDITIONAL INFORMATION.
- 2. STEEL DECKING SHALL BE OF THE TYPE AND GAUGE AS NOTED ON THE DRAWINGS. DECKING AND ALL ACCESSORIES SHALL BE GALVANIZED AND SHALL CONFORM TO ASTM A-653 SS, GRADE 50 MINIMUM. GALVANIZING SHALL CONFORM TO COATING DESIGNATION G90, UNLESS NOTED OTHERWISE.
- 3. STEEL DECKING TO RECEIVE CONCRETE FILL SHALL BE COMPOSITE TYPE, DEFORMED TO PROVIDE MECHANICAL BOND WITH THE CONCRETE, UNLESS NOTED
- 4. STEEL DECKING SHALL HAVE BUILT-IN VENTS. UNITS SHALL HAVE SLOTTED AND VENTED WEBS WITH A MINIMUM 1.5% UNIFORMLY DISTRIBUTED OPEN AREA.
- 5. DECK UNITS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS. PROVIDE SHORING AS REQUIRED BY MANUFACTURER'S CURRENT EVALUATION REPORT FOR NUMBER AND LENGTHS OF SPANS, AND AS REQUIRED BY MANUFACTURER TO SUIT JOB CONDITIONS.
- 6. MINIMUM BEARING OF DECKING ON SUPPORTS SHALL BE 2 INCHES. SHEETS SHALL BE ATTACHED TO ALL SUPPORTING STEEL MEMBERS (INCLUDING MEMBERS PARALLEL TO DECK UNDER UP-FLUTES) BY WELDING AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ADD METAL PLATE TO MATCH DECK THICKNESS, AS REQUIRED TO FACILITATE WELDING WHERE DECK DOWN FLUTES DO NOT LAND ON PARALLEL SUPPORTING MEMBERS. UPON COMPLETION OF ERECTION, ALL WELDS SHALL BE TOUCHED UP, DE-SLAGED, CLEANED AND PRIMED WITH A ZINC RICH PRIMER.
- 7. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL DRAWINGS, ETC., FOR SIZE AND LOCATION OF REQUIRED OPENINGS.

8. PROVIDE CLOSURE PLATES AT ALL DECK EDGES, INCLUDING CLOSURES AT

- COLUMNS, AND SHAFT OPENINGS OR DUCT PENETRATIONS. STEEL DECKING SUBCONTRACTOR SHALL SUPPLY ALL CLOSURES AND ALL SUPPORT FRAMING WHERE NECESSARY FOR SUCH OPENINGS. 9. STEEL DECKING SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR
- REVIEW AND APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INDICATE LOCATION, GAUGE AND SIZE OF EACH PIECE OF DECKING. SHOP DRAWINGS SHALL ALSO SHOW ALL CLOSURE CONDITIONS, WELDS TO SUPPORTS AND SIDE
- 10. STEEL DECKING SHOP DRAWINGS SHALL INDICATE SHEAR STUD CONNECTOR DETAILS AND STUD LAYOUT FOR EACH BEAM.
- 11. SHEAR STUDS SHALL BE WELDED THROUGH ONLY ONE THICKNESS OF DECK USING APPROVED WELDING METHODS. DECK SHALL BE PREPUNCHED WHERE MORE THAN ONE LAYER OF DECKING OCCURS AT A STUD LOCATION.
- 12. WELDING OF STEEL DECKING SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE - SHEET STEEL, AWS D1.3 BY THE AMERICAN WELDING SOCIETY.

#### WOOD

SHALL BE 19% OR LESS.

- ALL PORTIONS OF WORK PERTAINING TO WOOD CONSTRUCTION SHALL CONFORM TO TITLE 24. PART 2, CHAPTER 23, INCLUDING ADDITIONAL REQUIREMENTS AND EXCEPTIONS, AS APPLICABLE.
- 2. LUMBER SHALL BE GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU, OR THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION.
- DIMENSION LUMBER SHALL BE DOUGLAS FIR-LARCH, NO. 1 AND BETTER GRADE, UNLESS NOTED OTHERWISE. TIMBERS SHALL BE DOUGLAS FIR LARCH, NO. 1 GRADE, UNLESS NOTED OTHERWISE. MOISTURE CONTENT AT TIME OF INSTALLATION
- 4. ALL PLYWOOD SHALL BE STRUCTURAL 1 AND COMPLY WITH PRODUCT STANDARD PS-1. USE PLYWOOD NAILS SAME GAUGE AS COMMON WIRE NAILS WITH LENGTHS AT LEAST EQUAL TO PLYWOOD THICKNESS PLUS REQUIRED PENETRATION IN ACCORDANCE WITH CBC SECTIONS 2306.2 (AWC SDPWS TABLE 4.2A) OR
- 5. EXPOSED MEMBERS SHALL BE SELECT STRUCTURAL GRADE, FREE OF HEART CENTER (WHERE SIZE PERMITS), AND SELECTED FOR APPEARANCE AND STRAIGHTNESS.

2306.3 (AWC SDPWS TABLE 4.3A), AS APPLICABLE.

- 6. BOLT HOLES SHALL BE A MINIMUM OF  $\frac{1}{32}$ " TO A MAXIMUM OF  $\frac{1}{16}$ " LARGER DIAMETER THAN NOMINAL SIZE OF BOLT USED. RETIGHTEN ALL NUTS PRIOR TO CLOSING IN.
- 7. STANDARD CUT WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS AGAINST WOOD. USE HEAVY PLATE OR MALLEABLE IRON WASHERS WHERE NOTED.
- 8. DO NOT BORE OR NOTCH MEMBERS, EXCEPT WHERE SHOWN IN DETAILS. OBTAIN ENFORCEMENT AGENCY AND STRUCTURAL ENGINEER'S APPROVAL FOR ANY HOLES OR NOTCHES NOT DETAILED.
- 9. METAL CONNECTORS FOR WOOD CONSTRUCTION SHALL BE SIMPSON "STRONG-TIE", KC METALS, OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. PRODUCT CALLOUT ON PLANS REFERS TO SIMPSON "STRONG TIE" MODEL NUMBER AND KC METALS PRODUCT REFERENCE NUMBER. FILL ALL ROUND AND TRIANGLE HOLES WITH THE SPECIFIED NAILS. APPROVED EQUALS MAY ONLY BE USED WITH PRIOR APPROVAL FROM ENFORCEMENT AGENCY AND THE STRUCTURAL ENGINEER.
- 10. ALL SILL PLATES WHICH REST ON FOUNDATION OR SLAB ON GRADE SHALL BE PRESERVATIVE-TREATED IN ACCORDANCE WITH CBC SEC. 2303.1.9, AND SHALL BEAR THE QUALITY MARK OF AN APPROVED INSPECTION AGENCY THAT MAINTAINS CONTINUING SUPERVISION, TESTING AND INSPECTION OVER THE QUALITY OF PRESERVATIVE-TREATED WOOD. CUTS AND HOLES SHALL BE RETREATED.
- 11. JOISTS MORE THAN 8-INCH DEPTH SHALL BE CONTINUOUSLY BRIDGED BY SOLID BLOCKING, 2 INCHES THICK AND THE FULL DEPTH OF THE JOIST, SPACED AT 8 FEET ON CENTER.
- 12. ALL NAILING SHALL CONFORM TO CBC TABLE 2304.10.1 FASTENING SCHEDULE, USING COMMON WIRE NAILS. PREDRILL ALL NAILS 20D AND LARGER AND WHERE REQUIRED TO PREVENT SPLITTING. FASTENERS IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL.
- 13. LAG SCREWS SHALL HAVE LEAD HOLES BORED BEFORE INSTALLING. HOLE DIAMETERS SHALL BE AS FOLLOWS:
- SAME DIAMETER AND LENGTH OF SHANK. A. SHANK PORTION
- B. THREADED PORTION 0.40 TO 0.70 DIAMETER OF SHANK AND SAME LENGTH AS THREADED PORTION.

#### MACHINE APPLIED NAILING

1. THE USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE ENFORCEMENT AGENCY. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER, OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED. THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND SHALL BE DISCONTINUED.

#### **FASTENING SCHEDULE**

1. NAILING IS TYPICAL UNLESS NOTED OR DETAILED OTHERWISE. ALL NAILS SHALL BE COMMON WIRE NAILS. DRILL HOLES FOR 20d NAILS AND LARGER AND AS REQUIRED TO PREVENT SPLITTING. FASTENERS IN CONTACT WITH PRESERVATIVE—TREATED WOOD SHALL BE OF HOT—DIPPED ZINC—COATED GALVANIZED STEEL.

JOISTS TO SILL OR GIRDER (3)8d TOENAIL

- BLKG. BETWEEN RAFTERS/JOISTS NOT AT THE WALL TOP PLATE TO RAFTER/JOIST (2)8d TOENAIL EACH END BETWEEN PLATE TO JOIST OR BLOCKING 16d @ 16" O.C. TYPICAL FACE NAIL
- BETWEEN PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL 3-16d BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE OR OTHER FRAMING BELOW (3)8d TOENAIL EACH END
- 2. PLYWOOD NAILING REFER TO PLANS.

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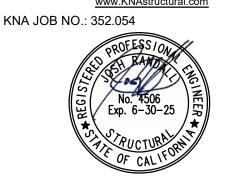


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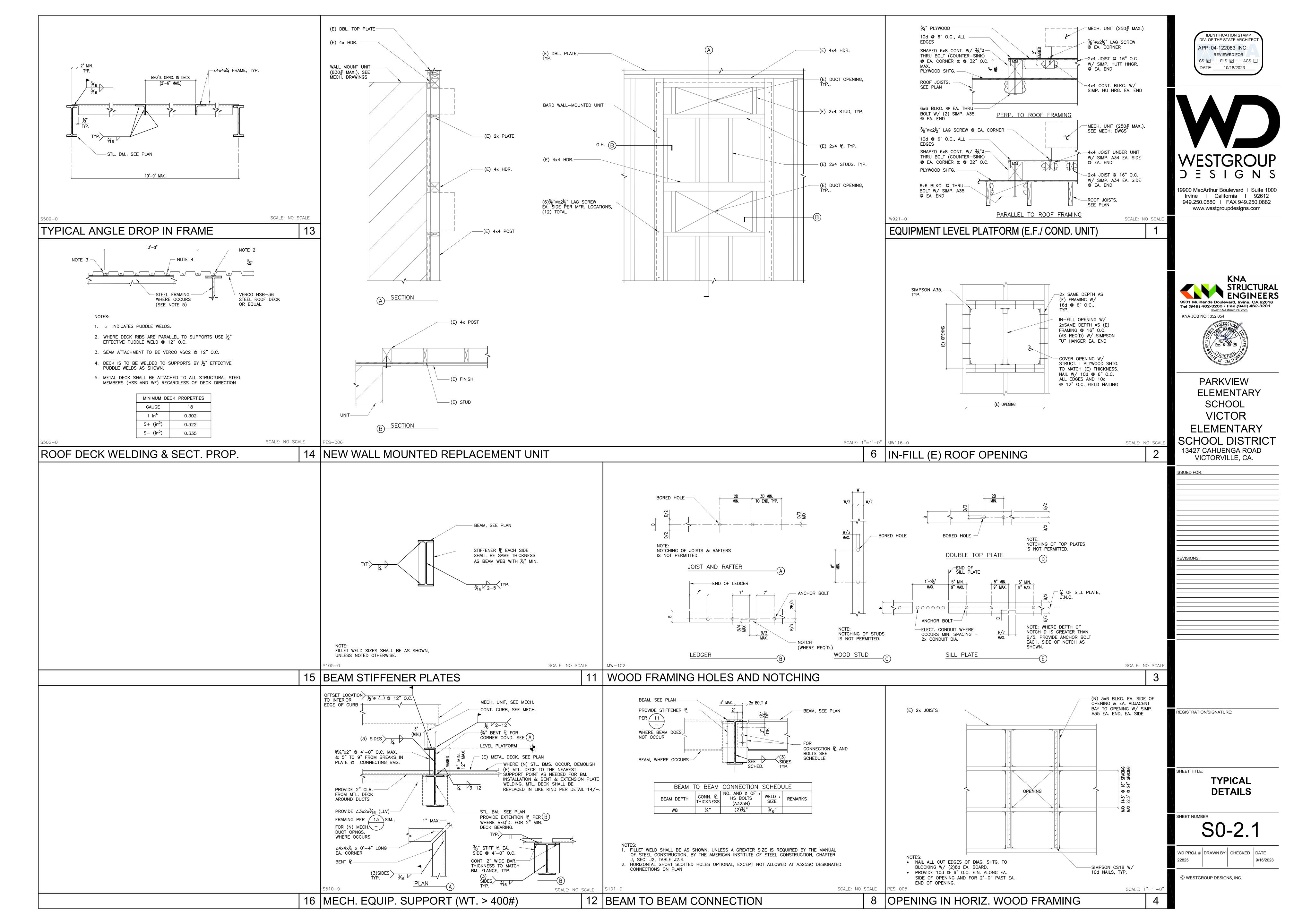
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**GENERAL NOTES** 

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ROOF FRAMING PLAN - MULTI-PURPOSE

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

# ROOF FRAMING PLAN NOTES

- 1. SEE SHEETS S0.1 THROUGH S0-2.1 FOR GENERAL NOTES AND TYPICAL DETAILS.
- 2. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.

  3. SEE ARCHITECTURAL PLUMBING MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCAL COMMENCE.
- 3. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ROOF OPENINGS NOT SHOWN ON ROOF FRAMING PLANS. SEE DETAILS 13/S0-2.1 FOR TYPICAL OPENINGS, UNLESS NOTED OTHERWISE.
- 4. ALL BEAMS SHALL BE EQUALLY SPACED BETWEEN COLUMNS, UNLESS NOTED OTHERWISE.
- 5. "MU" DENOTES MECHANICAL UNIT. MAXIMUM ALLOWABLE WEIGHT IS SHOWN. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND WEIGHT OF MECHANICAL UNITS. FOR TYPICAL FRAMING AT MECHANICAL UNITS, SEE DETAIL 12/S0-2.1. ALSO, SEE MECHANICAL FOR UNIT ATTACHEMNT EXISITNG CURB WHERE OCCURS.

6. THE CONTRACTOR SHALL COORDINATE LOCATION OF ALL FRAMING BEAMS AT MECHANICAL UNITS WITH MECHANICAL DRAWINGS. THE LOCATION OF FRAMING SHALL MATCH CURB LAYOUT AND ROOF PENETRATIONS FOR THE SUPPLIED UNITS.

LEGEND

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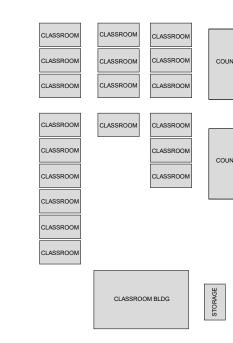
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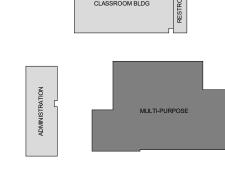
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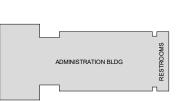
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**ROOF FRAMING** 

PLAN -MULTI-PURPOSE

S5-1.2

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