

### Ventura County Community College District

PURCHASING DEPARTMENT

DATE: September 15, 2023

TO: All Bidders

FROM: Renée Knight, Purchasing Specialist

SUBJECT: Addendum 1 – Bid #658, Oxnard College Campuswide HVAC Project

This addendum is hereby made part of the Contract Documents to the same extent as though it was originally included therein and takes precedence over the original documents. The outdated pages must be replaced with any updated and/or changed pages when submitting your bid. Acknowledge receipt of all addenda on the Bid Form.

The bid opening remains on **Thursday, September 21, 2023**. Bids must be received no later than **4:00 p.m**. at 761 E Daily Drive, Suite 200, Camarillo, CA 93010. Properly mark the outside of the exterior envelope on your submitted bid with the <u>Bid Number and Name</u> according to the requirements stated in the bid packet directions.

If you choose not to participate in this particular bid, please sign the Bid Proposal stating "no bid" and email it (rknight@vcccd.edu) or fax it back to me at 805-652-7700.

It is the responsibility of the Bidder to verify that their proposal has been received by the VCCCD Purchasing Department prior to the opening date. Verification of receipt can be made through the listed Purchasing Specialist.

No questions were received prior to the deadline of September 11, 2023 3:00pm. No further questions will be accepted.

The following information is offered by the District and the Engineer of Record to add supplemental information.

End of Section



Ventura, California 93001-2925 (805) 653-1722 fax (805) 653-7260

email: hugh@aegroupme.com

Bid#658: Oxnard College Campuswide HVAC Project Addendum #1

- See Attached Electrical Plans for Shop HVAC Sheets E100, E200, E420.
- 2. Reference sheet M2.0 Original Child Care mechanical floor plans for duct cleaning and balancing purposes only.
- 3. Reference Sheet M3.0 Original Gym mechanical floor plans for duct cleaning and balancing purposes only.
- 4. Reference M4.0 Middle High School Duct Sketch for duct cleaning.
- 5. Reference Sheet M2.0 Existing Child Care HVAC Unit Replacement. Remove existing UV Light Systems from existing units and reinstall in new units typical of 6 package rooftop units.
- 6. Reference Sheet M3.0 Existing Gym HVAC unit replacement. Remove existing UV Light Systems from existing units and reinstall in new units – typical of 4 package rooftop units.
- 7. Reference Sheet M4.0 Include UV Lights as a factory option. Typical 16 units.
- 8. Reference Sheet M5.0 & M6.0— All refrigerant pipe shall be rigid type ACR with brazed fittings. Pipe shall be installed straight, true, level and parallel to building elements. Interior insulation shall have miter glued joints at elbows and tees neatly installed. Exterior jacketing shall be installed in a neat professional manner with proper laps and sealed. Piping shall be properly supported with insulation inserts and shields.
- 9. Reference Sheets M6.0, M7.0, M8.0, & M9.0. All refrigerant piping at roof and equipment rooms shall be rigid type ACR with brazed fittings. Pipe shall be installed straight, true, level, and parallel to building elements. Interior insulation shall have miter glued joints at elbows and tees neatly installed. Exterior jacketing shall be installed in a neat professional manner with proper laps and sealed. Line sets with proper thickness insulation may be installed at concealed attic locations. Piping shall be properly supported with insulation inserts and shields.
- 10. Reference Sheet M1.1 & M2.0 Gym. Revise HP-1& HP-3 to the following schedule –

York XYE06. 5 ton nominal capacity. With factory economizer, single enthalpy control, Pelican Pearl economizer control, power exhaust. Coated condenser and evaporator. Curb adapter for HP-3. Electrical Data – 208/3/60, MCA 15.1, MOCP 20 Amps.

Revise Sheet M1.1 & M2.0 - Gym. Revise HP-2

York XYE06. 5 ton nominal capacity. With factory economizer, single enthalpy control, Pelican Pearl economizer control, power exhaust. Coated condenser and evaporator.

Electrical Data - 208/3/60, MCA 15.1, MOCP 20 Amps.

11. Contractor shall file any manufacturer's related warranty registration and provide copies and date of registration to owner.

Attachments E-100, E-200, E-420 Original Gym Mechanical Floor Plan Original Child Care Mechanical Floor Plan Middle High School Duct Sketch M4.0

ELECTRICIANS" PERFORMING WORK ON THIS PROJECT SHALL BE CURRENTLY CERTIFIED IN ACCORDANCE WITH THE STATE OF

NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW

ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT

ALL DEVICES, CIRCUITS CONDUCTORS, FEEDERS ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE

REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH

DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS

MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS

CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES

EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS

DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC

ALL OVER-CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE

DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS ON SITE AND IN WALL, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

ABANDONED AND REMOVE, PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER

). REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK

CALIFORNIA AB931 AND THE DIVISION OF APPRENTISHIP STANDARDS SECTION 3099.

LABELED AS 'SPARE'. COORDINATE ALL OUTAGES WITH OWNERS REPRESENTATIVE

REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES.

BEGINNING OF DEMOLITION MEANS CONTRACTOR ACCEPTS EXISTING CONDITIONS.

DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.

CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.

WALLS AND FLOOR, AND PATCH SURFACES.

PANEL AS APPROPRIATE.

THE BRANCH CIRCUIT. INDICATE THE RECEPTACLE RATING. (210.21(B)(1))

REQUIRED TO BE LISTED WEATHER-RESISTANT TYPE. [CEC 406.8(A)].

4. PROVIDE RECEPTACLE OUTLETS WHEREVER CORD CONNECTED EQUIPMENT WILL BE USED. (210.50(B))

.5. WHERE THE DISCONNECTS ARE NOT PROVIDED WITHIN SIGHT FROM THE EOUIPMENT IT SUPPLIES, THE SWITCH OR CIRCUIT BREAKER

MUST INCLUDE PROVISIONS FOR ADDING A LOCK, AND THESE PROVISIONS MUST REMAIN WITH THE EQUIPMENT. THESE LOCKING

16. STANDARD NON-LOCKING STRAIGHT-BLADE RECEPTACLES IN 120- AND 250-VOLT CONFIGURATION AT WET/DAMP LOCATION ARE

PROVISIONS HAVE TO BE PART OF THE EQUIPMENT, EITHER INHERENT TO THE EQUIPMENT DESIGN OR AS A ACCESSORY FEATURE THAT CAN BE INSTALLED ON THE EQUIPMENT. [410.141(B), 422.31(B), 424.19, 440.14 EXCEPTION NO. 1, 600.6(A)(2)(3), 620.51(A) EXCEPTION

### **GENERAL NOTES** LIST OF DRAWINGS SYMBOLS SHEET # SHEET DESCRIPTION SHEET # | SHEET DESCRIPTION 3. ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS. DUPLEX RECEPTACLE, WALL MOUNTED @ +18" AFF TO BOTTOM OF DEVICE, NEMA 5-20R U.O.N. E100 GENERAL NOTES, ABBREVIATIONS, SYMBOLS & DRAWING LIST 4. EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND SHOWN FOR REFERENCE ONLY JUNCTION BOX (CEILING MTD.) SIZE PER TABLE AND NEC ARTICLE 314 THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE. E200 EXISTING ELECTRICAL SINGLE LINE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 314 E420 | ELECTRICAL PLAN FOR HVAC SYSTEM 5. ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT. ALL ITEMS NOTED ON THE THERMOSTAT - 36" TO 48" AFF, BOTTOM & TOP OF BOX RESPECTIVELY MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES. PLAN WHICH ARE NOT EXPLICITLY STATED AS EXISTING SHALL BE NEW. **TRANSFORMER** FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING BRANCH CIRCUIT PANELBOARD - 120/208VAC, 3Ø, 4W. MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE JURISDICTION. CARRIED IN ALL CONDUITS. BRANCH CIRCUIT PANELBOARD - 480/277V, 3Ø, 4W. REGULATIONS AND CODES 4'X8'X3/4" TELEPHONE BACKBOARD, MARINE PLYWOOD AND PAINTED WITH FIRE RESISTANT PAINT, PER OWNERS INSTALLATION IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE 2022 C.E.C., CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END FURNISH ALL LABOR AND TOOLS REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS RECOMMENDATIONS. CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS, NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING. THE FLEXIBLE CONDUIT (WITH GROUND CONDUCTOR, PROVIDE LIQUID TIGHT CONDUIT IN ALL INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE PLANS AUTHORIZES DEVIATION FROM HASH MARKS INDICATE QUANTITY OF #12 CONDUCTORS. NO HASH MARKS INDICATE (2)#12AWG. (PROVIDE GROUND CONDUCTOR IN ALL TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST. SCOPE OF WORK CONDUITS.) DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY - WHERE NO NUMBER IS INDICATED, THE CONDUCTORS ARE COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALI INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS. #12AWG(MIN.) CONDUIT SIZE IS AS REQUIRED BY ELECTRICAL CODE. PROVIDE POWER TO NEW HVAC EQUIPMENT TO SHOP AREA ELECTRICAL CONNECTION REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. ELECTRICAL EQUIPMENT (3/4" CONDUIT MINIMUM). PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EOUIPPED LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED. SCALING OFF OF DRAWINGS WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH SHALL BE DONE AT CONTRACTORS RISK. DO NOT SCALE DEVICES, LIGHTING FIXTURES OR ANY EQUIPMENT FROM PLANS. INDICATES A HOMERUN TO PNL 2LA, CKTS 1-3-5 WITH SHARED NEUTRAL & MOTOR MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. LIGHTING FIXTURE QUANTITIES AND LENGTHS SHALL BE CONTRACTORS RESPONSIBILITY. FIXTURES ARE SHOWN FOR CKT 7 WITH DEDICATED NEUTRAL. CIRCUITING ONLY. CONTRACTOR TO VERIFY SIZES & QUANTITIES PRIOR TO BID. └─2LA 1-3-5,7 FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS LIST OF APPLICABLE CODES 3/4"C-2#12 & 1#12 GND REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR. UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF 3/4"C-3#12 & 1#12 GND THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN-HOURS REQUIRED FOR COMPLETION. 3/4"C-4#12 & 1#12 GND WITHIN THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE LIST OF APPLICABLE CODES CONDUITS CROSS EACH OTHER, THICKEN SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER 3/4"C-5#12 & 1#12 GND OF THE LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN... 1" CONDUIT MINIMUM IF UNDERGROUND (CONTRACTOR TO PROVIDE 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR PROVIDE RECORD DRAWINGS IN ACAD TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE <del>- || - |</del> 3/4"C-2#10 & 1#10 GND DEDICATED NEUTRALS FOR CIRCUITS WHICH DO NOT HAVE COMMON PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF ALL SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE CIRCUIT HANDLE TIES ON BREAKERS FEEDING THE CIRCUITS) 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP. 3/4"C-3#10 & 1#10 GND 3/4"C-4#10 & 1#10 GND 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN 3/4"C-5#10 & 1#10 GND 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR. THEY RUN LONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SEE KEY NOTE #1 AS INDICATED ON DRAWING 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR APPLICABLE STANDARDS SPECIFIC APPROVAL OF THE OWNERS REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS SWITCH WITH PILOT LIGHT @ 42"AFF SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO ENGINEER FOR APPROVAL OF APPEARANCE. ALL LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR 3-WAY SWITCH, a & b INDICATES LIGHT FIXTURE TO BE SWITCHED (EACH A 3-WAY) MOUNTED @ 42" AFF HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR FOR CONFORMANCE PRIOR TO SUBMITTAL. SUBMIT THREE HARD COPY SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND SWITCH MOUNTED @ +42" AFF PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES. \$м SWITCHES, RECEPTACLES, ETC. MOTOR RATED SWITCH ALL RECEPTACLES SHALL BE MOUNTED AT 18" PER ADA REQUIREMENTS UNLESS NOTED OTHERWISE, MEASURED FROM BOTTOM OF \$ a,b,c,d CIRCUIT SWITCH LEGS **ABBREVIATIONS** MOUNTING HEIGHT CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO ----- WALL SWITCHES 10. ALL DISTRIBUTION BOARDS, SWITCHBOARDS AND TRANSFORMERS THAT ARE FLOOR MOUNTED SHALL BE MOUNTED ON 2" THICK SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER HOUSEKEEPING PAD. TRANSFORMER SHALL BE ON VIBRATION ISOLATION PADS AND CONNECTED WITH FLEXIBLE CONDUIT. PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT OVER OBSTRUCTION LONG CONTINUOUS LOAD RELIEVE THE CONTRACTOR COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. DISCONNECT SWITCH, 60AMP SWITCH, 35 AMP FUSE, 3 POLE W/ OVERCURRENT PROTECTION U.O.N. AMP FRAME/AMP FUSE LOW VOLTAGE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. AVAILABLE FAULT CURRENT METER SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JURISDICTION. METAL CLAD ABOVE FINISHED FLOOR OTHER CONTRACTORS. 100A UTILITY METER (OR AS NOTED) MAIN DISTRIBUTION FRAME AMP INTERRUPTING CURRENT 12. ALL SWITCHES SHALL BE MOUNTED 36" TO 48" MEASURED FROM BOTTOM & TOP OF BOX RESPECTIVELY AMP SWITCH MTD MOUNTED ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION FUSED DISCONNECT SWITCH 100AMP SWITCH RATING WITH 60 AMP FUSES, 3 POLE PANEL CIRCUIT DIRECTORY SHALL COMPLY WITH CEC 408.4. MTB MAIN TELEPHONE BACKBOARD ASTM AMERICAN SOCIETY OF MOUNTING AMP TRIP MEDIUM VOLTAGE ALL INSTALLED MATERIALS AND EQUIPMENT SHALL BE LISTED U.L., NRTL OR LISTED AND APPROVED BY AN APPROVED TESTING MOLDED CASE CIRCUIT BREAKER 200 AMP FRAME, 150 AMP TRIP RATING, 3 POLE MAN HOLF MARKING - UNDERGROUND SYSTEM SHALL BE LEGIBLY MARKED "UNDERGROUND SYSTEM" AT THE SOURCE OR FIRST DISCONNECTING 2'-6" CLR AUTOMATIC TRANSFER SWITCH LABORATORY MANUFACTURER AMERICAN WIRE GAGE MEANS OF THE SYSTEM. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. NATIONAL ELECTRICAL CODE BACKBOARD CCTV-VERIFY MOUNTING LOCATION AND REQUIREMENTS WITH CLIENT/OWNER. CONDUIT OR CEILING NEW CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE, CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH PROVIDE SWITCH AND RECEPTACLE HEIGHTS PER STATE OF CALIFORNIA ACCESSIBLE REQUIREMENTS. NOT IN CONTRACT CIRCUIT BREAKER COLOR CODE FOR CONDUCTORS UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLEI CONT CONTINUATION NIGHT LIGHT ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO NORMALLY OPEN THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERRORS ON THESE MC, BX OR AC90 SHALL BE PERMITTED. FLEXIBLE STEEL CONDUIT RUNS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 6 FOOT. PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR NORMALLY CLOSED CEILING ALL CONNECTIONS SHALL BE COMPRESSION & NOT SCREW TYPE. CONDUIT ONLY OVERHEAD CABLE TELEVISION POWER OR POLE 120/208VAC, 3Ø, 4W: BLUE, BLACK, RED FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND. FOR FIRE RATED WALL/CEILING PENETRATION AND/OR MEMBRANE PENETRATION, COMPLETE NRTL CLASSIFICATION SHEETS SHALL BE PROVIDED BY OTHERS COLD WATER PIPE PANFL PROVIDE 20AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED FOR 120 PROVIDED TO THE INSPECTOR AT THE TIME OF INSPECTION FOR THE LISTED RATED ASSEMBLY. 277/480VAC,3Ø,4W: ORANGE,BROWN,YELLOW FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR DISCONNECT PHOTO VOLTAIC AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R. IN ALL OFFICES AND OFFICE AREAS DEVICES SHALL BE DECORA EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED DISCONNECT SWITCH REMOVED SERIES TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNERS REPRESENTATIVE. CONDUCTORS AT THE PANELBOARD WHERE THE BRANCH CIRCUIT ORIGINATES. (210.4) RIGID GALVANIZED STEEL DERATING TABLE ELECTRICAL CONTRACTO CONDUIT MULTIWIRE BRANCH CIRCUITS SUPPLYING POWER TO THE PARTITION SHALL BE PROVIDED WITH A MEAN TO DISCONNECT **EMERGENCY LIGHT/FEEDER** ROOM IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PUL SIMULTANEOUSLY ALL UNGROUNDED CONDUCTORS AT THE PANELBOARD WHERE THE BRANCH CIRCUIT ORIGINATES. (605.7) ELECTRICAL METAL TUBING SYSTEM NEUTRAL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER. IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE SURGE PROTECTION DEVICE FNGINEER OF RECORD CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN NEC #310-8 ADJUSTMENT FACTORS PROVIDE SEPARATE SUBMITTAL; OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND APPROVALS FOR ALL FIRE ALARM SYSTEM ETHYLENE PROPYLENE RUBBER TIME CLOCKS OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF INSTALLATIONS AND/OR MODIFICATIONS FROM THE FIRE DEPARTMENT. ELECTRIC VEHICLE CHARGING TELEPHONE TERMINAL BOARD (a) MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE. WHERE THE NUMBER OF CURRENT-CARRYING CONDUCTORS. IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET UNIQUELY WITH PERMANENT TELEPHONE TERMINAL CABINET CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITIES SHALL BE REDUCED AS SHOWN IN THE ALL NEW OVERCURRENT DEVICES INSTALLED IN EXISTING PANELS/SWITCHBOARDS SHALL MATCH THE MAKE, MODEL AND **TRANSFORMER** FRONT INTERRUPTING CAPACITY OF THE EXISTING OVERCURRENT DEVICES. TRANSIENT VOLTAGE SURGE FTRE ALARM SHALLOW FLOOR BOX SUPPRESSOR PERCENT OF VALUES IN TABLES AS ADJUSTED NUMBER OF CURRENT-CARRYING RACEWAY SEALS. CONDUITS OR RACEWAYS THROUGH WHICH MOISTURE MAY CONTACT LIVE PARTS SHALL BE SEALED OR PLUGGED AT TYPICAL DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, FOR AMBIENT TEMPERATURE IF NECESSARY CONDUCTORS GENERAL CONTRACTOR UNDERGROUND SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. (MUST BE MANUFACTURED WITHIN 6 MONTHS) GROUND FAULT INTERRUPTER UNDERWRITERS LABORATORY PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE $10.\;\;$ PROVIDE LOCAL DISCONNECTS FOR ALL HARDWIRED EQUIPMENT THAT IS NOT "WITHIN SIGHT" OF THE SOURCE PANEL. UNLESS OTHERWISE NOTED STRANDED COPPER CONDUCTORS FOR ALL WIRING. USE CONDUCTORS WITH 90°C THHN/THWN 600 VOLTS INSULATION, UNLESS 7 THROUGH 9 **HORSEPOWER** UNSW UNSWITCHED OTHERWISE NOTED. CONDUCTOR SIZE NO.1 AWG AND SMALLER WITH 90 DEGREE C INSULATION ARE TO USE THE 60 DEGREE 10 THROUGH 20 MULTIPLE RACEWAYS CONTAINING MORE THAN 3 CURRENT CARRYING CONDUCTORS SHALL COMPLY WITH [2016 CEC, 310.15(B)(2)(A)] VOLTS/VOLTAGE IDENTIFICATION COLUMN OF THE CODE, TABLE 310-16, TO DETERMINE AMPACITY. CONDUCTORS #1/0 AWG AND LARGER WITH 75 DEGREE AND 21 THROUGH 30 INTERMEDIATE DISTRIBUTION VOLT AMPS 31 THROUGH 40 90 DEGREE INSULATION ARE TO USE THE 75 DEGREE COLUMN OF CODE, TABLE 310-16, TO DETERMINE AMPACITY. (110.14C) THE IDENTIFICATION OF EVERY CIRCUIT OF A PANEL BOARD AND SWITCHBOARD SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, VOLTAGE DROP 41 AND ABOVE WHERE THE NUMBER OF CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH EVIDENT, AND SPECIFIC PURPOSE OR USE AND SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED ISOLATED GROUND WATTS/WATTAGE OR WIRE CONDUCTOR SHALL BE REDUCED PER TABLE 310.15(B)(3)(a). FROM ALL OTHERS. 2016 C.E.C 408.4 - PROVIDE MORE DETAIL ON PANEL SCHEDULE CIRCUIT DESCRIPTIONS. JUNCTION BOX WEATHERPROOF WHERE SINGLE CONDUCTORS OR MULTICONDUCTOR CABLES ARE STACKED OR BUNDLED LONGER THAN 24 INCHES (610 mm) WITHOUT WITH MAINTAINING SPACING AND ARE NOT INSTALLED IN RACEWAYS, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS 13. A SINGLE RECEPTACLE INSTALLED ON AN INDIVIDUAL BRANCH CIRCUIT SHALL HAVE AN AMPERE RATING OF NOT LESS THAN THAT OF KILO VOLT AMPS=1000VA EXISTING

SHOWN IN THE ABOVE TABLE. EXCEPTION NO. 1: WHERE CONDUCTORS OF DIFFERENT SYSTEMS, AS PROVIDED IN SECTION 300-3, ARE INSTALLED IN A COMMON RACEWAY OR CABLE, THE DERATING FACTORS SHOWN ABOVE SHALL APPLY TO THE NUMBER OF POWER AND LIGHTING (ARTICLES 210, 215,

EXCEPTION NO. 2: FOR CONDUCTORS INSTALLED IN CABLE TRAYS, THE PROVISIONS OF SECTION 318-11 SHALL APPLY. EXCEPTION NO. 3: DERATING FACTORS SHALL NOT APPLY TO CONDUCTORS IN NIPPLES HAVING A LENGTH NOT EXCEEDING 24 INCHES

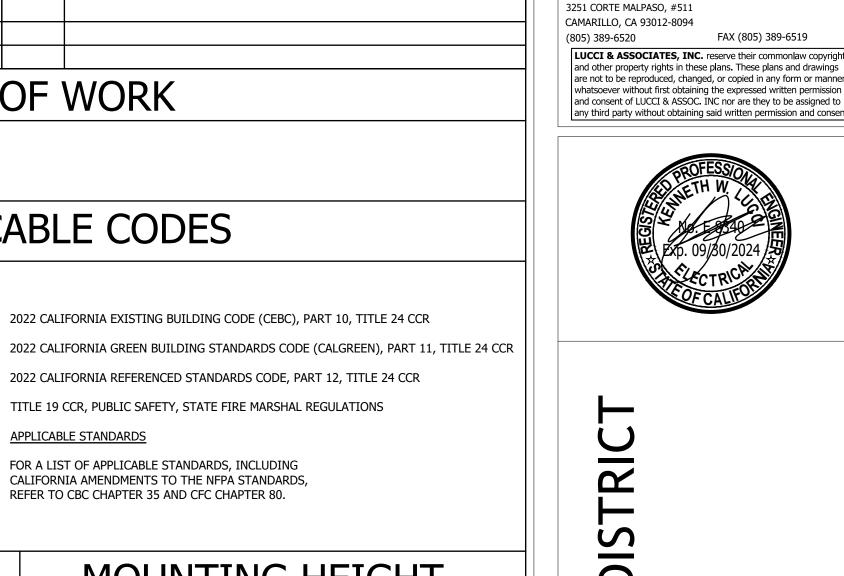
220, AND 230) CONDUCTORS ONLY.

EXCEPTION NO. 4: DERATING FACTORS SHALL NOT APPLY TO UNDERGROUND CONDUCTORS ENTERING OR LEAVING AN OUTDOOR TRENCH IF THOSE CONDUCTORS HAVE PHYSICAL PROTECTION IN THE FORM OF RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, OR RIGID

NONMETALLIC CONDUIT HAVING A LENGTH NOT EXCEEDING 10 FEET (3.05m) ABOVE GRADE AND THE NUMBER OF CONDUCTORS DOES NOT EXCEPTION NO. 5: FOR OTHER LOADING CONDITIONS, ADJUSTMENT FACTORS AND AMPACITIES SHALL BE PERMITTED TO BE CALCULATED

UNDER SECTION 310-15(b) (FNC): SEE APPENDIX B, TABLE B-310-11 FOR ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE WITH LOAD DIVERSITY.

(b) MORE THAN ONE CONDUIT, TUBE, OR RACEWAY. SPACING BETWEEN CONDUITS, TUBING, OR RACEWAYS SHALL BE MAINTAINED.



### TOP OF THERMOSTAT, SWITCH, OUTLET, CONTROL TOP OF THERMOSTAT SWITCH, OUTLET, CONTROL

### SITE/AREA MAP

LIGHTING CONTACTOR



- PROJECT AREA

FAX (805) 389-6519

FORNI

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CHECKED: K.L. DATE: 8-2-2023 | SCALE: AS NOTED

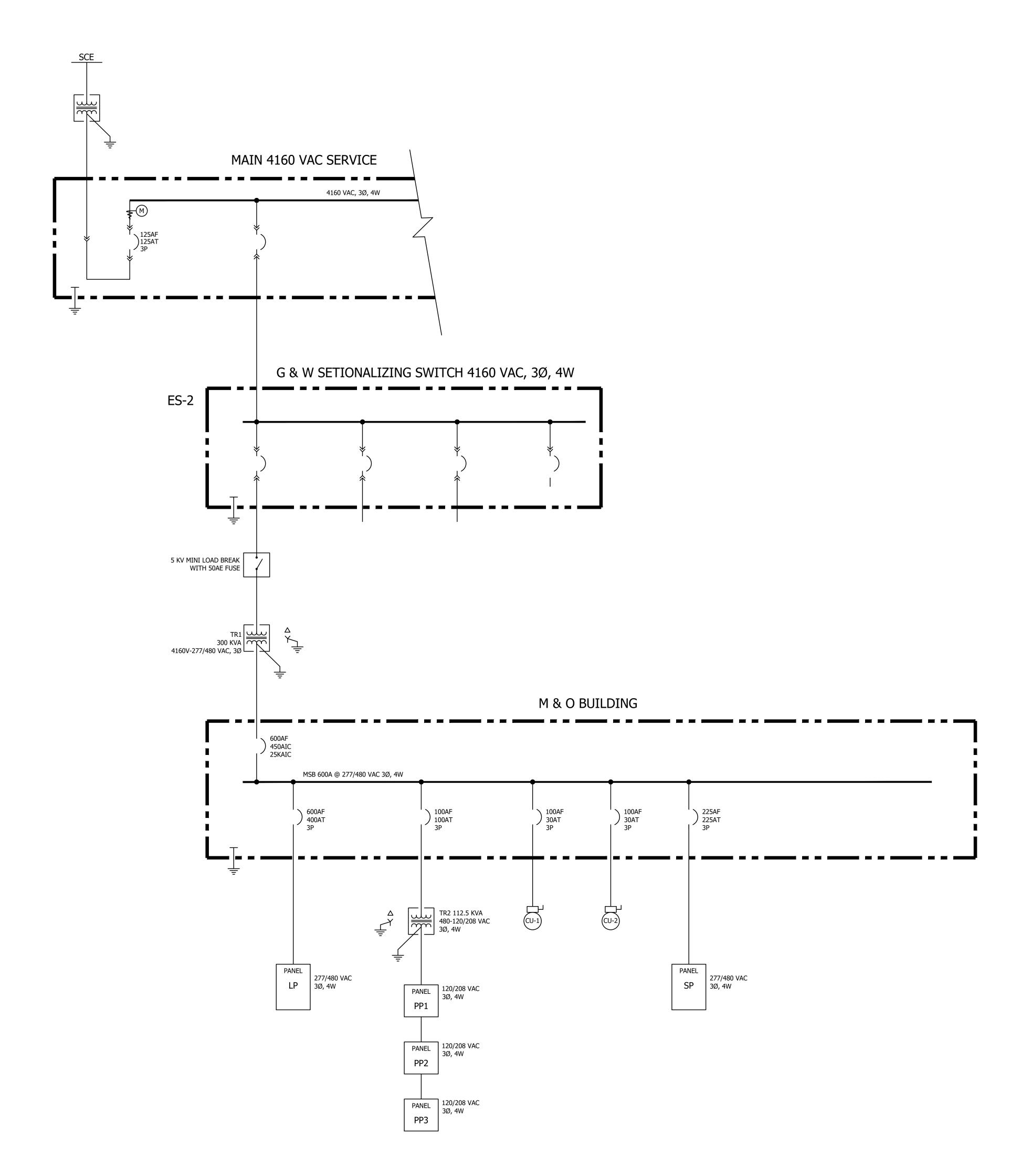
PROJECT NUMBER: 23-756

GENERAL NOTES, ABBREVIATIONS, SYMBOLS & DRAWING LIST

E100

L.A.I.# 23-756 PAPER SIZE 42"x30"

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EXISTING ELECTRICAL SINGLE LINE 1

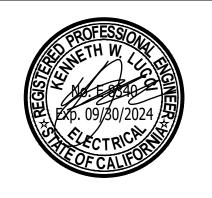
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### ムリヴが 送 メラゔリヴ/オブララ ルリヴ. CONSULTING ELECTRICAL ENGINEERS

3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389-6520

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LIFORNIA

HVAC RETROFIT 4000 SOUTH ROSE AVENUE - OXNARD,

## VENTURA COUNTY COMMUNITY COLLEGE DISTRIC OXNARD COLLEGE

# DRAWN: D.S. CHECKED: K.L.

DRAWN: D.S. CHECKED: K.L.

DATE: 8-2-2023 SCALE: AS NOTED

PROJECT NUMBER: 23-756

EXISTING ELECTRICAL SINGLE LINE & PANEL SCHEDULE

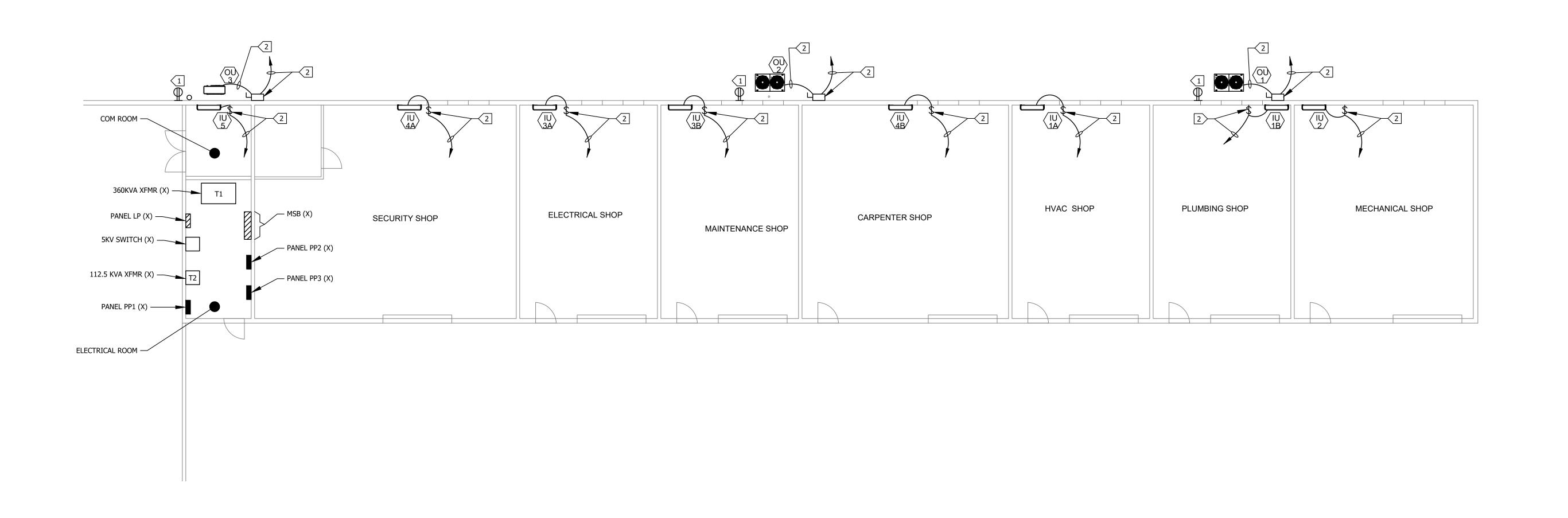
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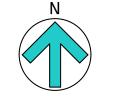
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РΔ	NF	NEL NUMBER PP3 VOLTAGE 208/120 PHASE 3 WIRE 4														■ NEMA 1 ■ COPPER BUSS									
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	ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT (NEMA 3R FOR OUTDOOR EQUIPMENT)													
TAG #	DESCRIPTION	MCA (A)	MOCP (A)	VOLTAGE	DISCONNECT	FUSE SIZE/TYPE	PANEL/CIRCUIT NO.	FEEDER	REMARKS					
$\left\langle \begin{array}{c} OUI \\ 1 \end{array} \right\rangle$	OUTDOOR UNIT 1	18	20	480V/3Ø	480V/20A/3P	NON FUSED	LD-38-40-42	3/4"C - 3#12 & 1#12 GND	WIRING PER MECH MFG					
(IU 1A)	SPLIT INDOOR UNIT 1A	.54	15	208V/1Ø	240V/15A/2P	NON FUSED	PP3-32-34	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG					
(IU 1B	SPLIT INDOOR UNIT 1B	.54	15	208V/1Ø	240V/15A/2P	NON FUSED	PP3-32-34	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG					
IU 2	SPLIT INDOOR UNIT 2	.7	15	208V/1Ø	240V/15A/2P	NON FUSED	PP3-32-34	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG					
OU 2	OUTDOOR UNIT 2	19.4	25	480V/3Ø	480V/20A/3P	25A FRS-RK	LP-32-34-36	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG					
IU 3A	INDOOR UNIT 3A	.54	15	208V/1Ø	240V/15A/2P.	NON FUSED	PP3-36-38	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG					
(IU 3B	INDOOR UNIT 3B	.54	15	208V/1Ø	240V/15A/2P.	NON FUSED	PP3-36-38	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG					
(IU 4A)	INDOOR UNIT 4A	.7	25	208V/1Ø	240V/15A/2P.	NON FUSED	PP3-36-38	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG					
IU 4B	INDOOR UNIT 4B	.7	25	208V/1Ø	240V/15A/2P.	NON FUSED	PP3-36-38	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG					
OU 3	OUTDOOR UNIT 3	13.5	15	208V/1Ø	240V/15A/2P.	NON FUSED	PP3-40-42	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG					
IU 5	INDOOR UNIT 5	FED FROM OU3	FED FROM OU3	FED FROM OU3	FED FROM OU3	FED FROM OU3	FED FROM OU3	FED FROM OU3	(FED FROM OU3) WIRING PER MECH MFG					







### SHEET NOTES:

- 1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
- 2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
- 3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
- 4. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS.
- 5. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
- 6. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C. ARTICLE
- 7. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
- 8. PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED
- 9. NO CONDUIT/FEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES,ALL FEEDERS SHALL BE RUN BENEATH THE ROOF.
- 10. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON AH UNIT.
- 11. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
- 12. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET)
- 13. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

- 1 WP GFCI RECEPTACLE FED FROM PP3-23.
- 2 DISCONNECT AND FEEDER PER ATTACHED SCHEDULE.

### 3251 CORTE MALPASO, #511

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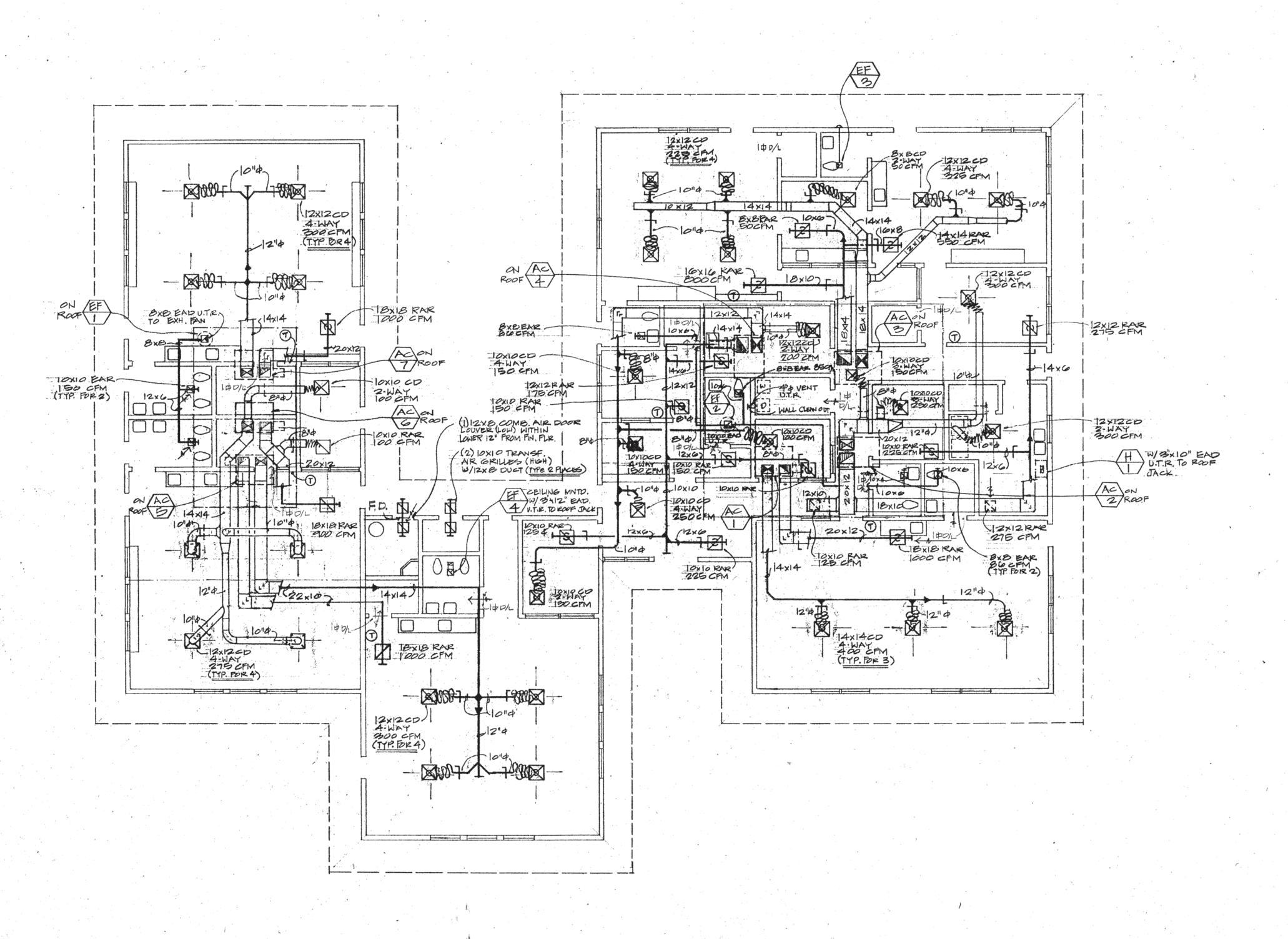
LIFORNIA

HVAC RETROFIT 4000 SOUTH ROSE AVENUE - OXNARD,

DATE: 8-2-2023 SCALE: AS NOTED PROJECT NUMBER: 23-756

ELECTRICAL PLAN FOR **HVAC SYSTEM** 

E420 DRAWING NUMBER :



MECHANICAL FLOOR PLAN

SCALE 1/8:1-0

BISHOP GRAPHICS/ACCUPRESS REORDER NO. A46185

MECHANICAL

TITLE 24 & 1988 UBG

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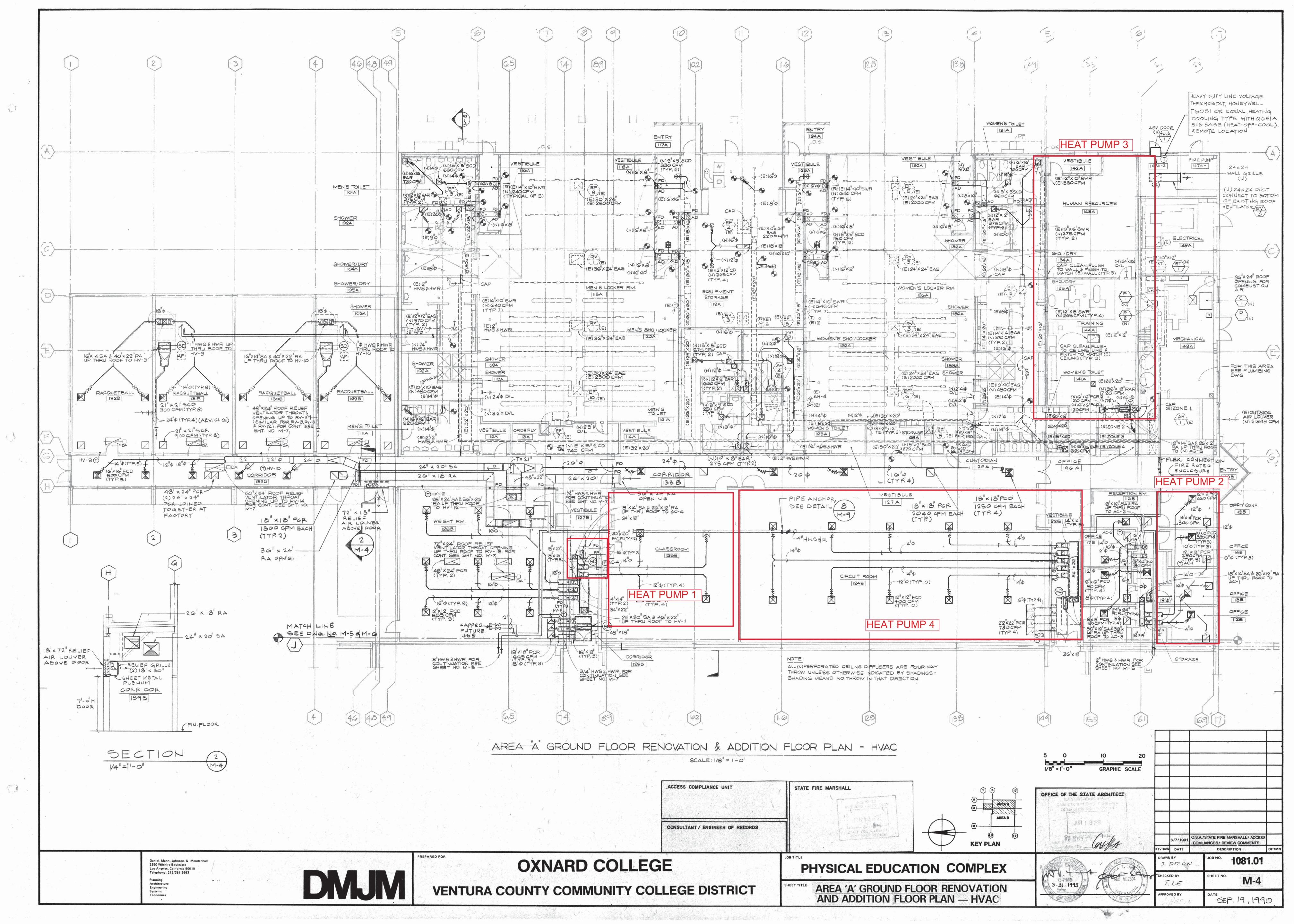
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STATE FIRE MARSHAL SOUTHERN REGION

SHEET NO. M-2



### MECHANICAL SCEDULE

### ADMINISTRATION BUILDING SERVER ROOM

SPLIT SYSTEM. SAMSUNG MODEL AC018BNNDCH/AA/ACO18BXADCH/AA
COOLING 17,400 BTUH. COATED CONDENSER COIL. MINI SPLIT CONDENSATE PUMP
208/1/60 MCA 20.1 MOCP 25 WIRED THERMOSTAT
OUTDOOR UNIT WEIGHT 118 LBS. INDOOR UNIT 26 LBS.
OUTDOOR UNIT PROVIDES POWER TO INDOOR UNIT.

### STUDENT SERVICES BUILDING ELEVATOR ROOM 1ST FLOOR AND SERVER ROOM SECOND FLOOR

SPLIT SYSTEM. SAMSUNG MODEL AR12TSFABWKNCV/AR12TSFACWKXCV COOLING 12,000 BTUH. COATED CONDENSER COIL. MINI SPLIT CONDENSATE PUMP 208/1/60 MCA 12.5 MOCP 20 W/ WIRED THERMOSTAT OUTDOOR UNIT WEIGHT 71 LBS. INDOOR UNIT 23 LBS. OUTDOOR UNIT PROVIDES POWER TO INDOOR UNIT.

SPLIT SYSTEM. SAMSUNG MODEL AR12TSFABWKNCV/AR12TSFACWKXCV
COOLING 12,000 BTUH. COATED CONDENSER COIL. MINI SPLIT CONDENSATE PUMP
208/1/60 MCA 12.5 MOCP 20 W/ WIRED THERMOSTAT
OUTDOOR UNIT WEIGHT 71 LBS. INDOOR UNIT 23 LBS.
OUTDOOR UNIT PROVIDES POWER TO INDOOR UNIT.

### CHILD DEVELOPMENT CENTER

PACKAGE ROOFTOP UNIT. HEAT PUMP YORK MODEL PHE6B36
EER 12.0. 2.5 TON NOMINAL COOLING, MERV 13 FILTERS, COATED CONDENSER COIL
ECONOMIZER, CURB ADAPTER.
ELECTRICAL DATA 208/1/60 MCA 23.5 AMPS, MOCP 35 AMPS.
REPLACE (E) THREE PHASE BREAKER W/ TWO POLE BREAKER
UNIT WEIGHT - 407 LBS. SET OUTSIDE AIR TO 200 CFM

PACKAGE ROOFTOP UNIT. HEAT PUMP YORK MODEL XYE04
EER 12.0. 3 TON NOMINAL COOLING, MERV 13 FILTERS, COATED CONDENSER COIL
ECONOMIZER WITH FAULT DETECTION. CURB ADAPTER
ELECTRICAL DATA 208/3/60 MCA 21.6 AMPS, MOCP 30 AMPS
UNIT WEIGHT - 535 LBS SET OUTSIDE AIR TO 200 CFM.

PACKAGE ROOFTOP UNIT. HEAT PUMP YORK MODEL XYE04
EER 12.0. 3 TON NOMINAL COOLING, MERV 13 FILTERS, COATED CONDENSER COIL
ECONOMIZER WITH FAULT DETECTION. CURB ADAPTER
ELECTRICAL DATA 208/3/60 MCA 21.6 AMPS, MOCP 30 AMPS
UNIT WEIGHT - 535 LBS SET OUTSIDE AIR TO 200 CFM.

PACKAGE ROOFTOP UNIT. HEAT PUMP YORK MODEL XYE04
EER 12.0. 3 TON NOMINAL COOLING, MERV 13 FILTERS, COATED CONDENSER COIL
ECONOMIZER WITH FAULT DETECTION. CURB ADAPTER
ELECTRICAL DATA 208/3/60 MCA 21.6 AMPS, MOCP 30 AMPS
UNIT WEIGHT - 535 LBS SET OUTSIDE AIR TO 200 CFM.

PACKAGE ROOFTOP UNIT. HEAT PUMP YORK MODEL XYE04
EER 12.0. 3 TON NOMINAL COOLING, MERV 13 FILTERS, COATED CONDENSER COIL
ECONOMIZER WITH FAULT DETECTION. CURB ADAPTER
ELECTRICAL DATA 208/3/60 MCA 21.6 AMPS, MOCP 30 AMPS
UNIT WEIGHT - 535 LBS SET OUTSIDE AIR TO 200 CFM.

PACKAGE ROOFTOP UNIT. HEAT PUMP YORK MODEL XYE04

EER 12.0. 3 TON NOMINAL COOLING, MERV 13 FILTERS, COATED CONDENSER COIL

ECONOMIZER WITH FAULT DETECTION. CURB ADAPTER

ELECTRICAL DATA 208/3/60 MCA 21.6 AMPS, MOCP 30 AMPS

UNIT WEIGHT - 535 LBS SET OUTSIDE AIR TO 200 CFM.

### CONDOR HALL SERVER ROOM

OUTDOOR UNIT. SAMSUNG MODEL AM072FXVAJH2AA COOLING 72,000 BTUH. COATED CONDENSER COIL 460/3/60 MCA 16.4 MOCP 20 OUTDOOR UNIT WEIGHT 416 LBS.

OU OUTDOOR UNIT. SAMSUNG MODEL AM072FXVAJH2AA COOLING 72,000 BTUH. COATED CONDENSER COIL 460/3/60 MCA 16.4 MOCP 20 OUTDOOR UNIT WEIGHT 416 LBS.

INDOOR UNIT. SAMSUNG MODEL AM036JNCDCH/AA
COOLING 36,000 BTUH. WIRED SAMSUNG THERMOSTAT
208/1/60 MCA 0.9 MOCP 15. LITTLE GIANT CONDENSATE PUMP VCMA 20 PRO
INDOOR UNIT 74 LBS.

INDOOR UNIT. SAMSUNG MODEL AM036JNCDCH/AA
COOLING 36,000 BTUH. WIRED SAMSUNG THERMOSTAT
208/1/60 MCA 0.9 MOCP 15. LITTLE GIANT CONDENSATE PUMP VCMA 20 PRO

INDOOR UNIT 74 LBS.

INDOOR UNIT. SAMSUNG MODEL AM036JNCDCH/AA
COOLING 36,000 BTUH. WIRED SAMSUNG THERMOSTAT
208/1/60 MCA 0.9 MOCP 15. LITTLE GIANT CONDENSATE PUMP VCMA 20 PRO INDOOR UNIT 74 LBS.

INDOOR UNIT. SAMSUNG MODEL AM048JNCDCH/AA
COOLING 48,000 BTUH. WIRED SAMSUNG THERMOSTAT
208/1/60 MCA 1.4 MOCP 15. LITTLE GIANT CONDENSATE PUMP VCMA 20 PRO

### CUSTODIAL WAREHOUSE

INDOOR UNIT 94 LBS.

FAN COIL. SAMSUNG MODEL AM036TNZDCH/AA
3 TON NOMINAL WITH 2" FILTER GRILLE WITH MERV 13 FILTERS
208/1/60 MCA 2.08 MOCP 15. WEIGHT 138 LBS

FAN COIL. SAMSUNG MODEL AM036TNZDCH/AA
3 TON NOMINAL WITH 2" FILTER GRILLE WITH MERV 13 FILTERS
208/1/60 MCA 2.08 MOCP 15. WEIGHT 138 LBS

OUTDOOR UNIT. SAMSUNG MODEL AM072FXVAJH2AA COOLING 72,000 BTUH. COATED CONDENSER COIL 460/3/60 MCA 16.4 MOCP 20 OUTDOOR UNIT WEIGHT 416 LBS.

CP CONDENSATE PUMP
LITTLE GIANT CONDENSATE PUMP VCMA 20 PRO
POWER FROM FC-1

WIRE TO SHUT BOTH FAN COILS DOWN UPON PUMP FAILURE

### MIDDLE COLLEGE/JCC AND RADIO STATION

HP 1 HEAT PUMP WALL MOUNT. 3.5 TON NOMINAL COOLING MARVAIR MAA2042HA090D++ZA1EAC32+AD PELICAN THERMOSTAT MODEL TC3

HP 2 HEAT PUMP WALL MOUNT.
MARVAIR MAA2042HA090D++ZA1EAC32+AD
PELICAN THERMOSTAT MODEL TC3

HP HEAT PUMP WALL MOUNT.

MARVAIR MAA2042HA090D++ZA1EAC32+AD
PELICAN THERMOSTAT MODEL TC3

HEAT PUMP WALL MOUNT

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HP HEAT PUMP WALL MOUNT.

7 MARVAIR MAA2042HA090D++ZA1EAC32+AD
PELICAN THERMOSTAT MODEL TC3

HP
8 HEAT PUMP WALL MOUNT.
MARVAIR MAA2042HA090D++ZA1EAC32+AD

PELICAN THERMOSTAT MODEL TC3

HP
9 HEAT PUMP WALL MOUNT.
MARVAIR MAA2042HA090D++ZA1EAC32+AD

PELICAN THERMOSTAT MODEL TC3

HEAT PUMP WALL MOUNT.
MARVAIR MAA2042HA090D++ZA1EAC32+AD

HP HEAT PUMP WALL MOUNT.
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PELICAN THERMOSTAT MODEL TC3

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HP HEAT PUMP WALL MOUNT.

MARVAIR MAA2042HA090D++ZA1EAC32+AD
PELICAN THERMOSTAT MODEL TC3

### AUTO TECH

HEAT PUMP WALL MOUNT.
MARVAIR MAA2042HA090D++ZA1EAC32+AD
PELICAN THERMOSTAT MODEL TC3

HEAT PUMP WALL MOUNT.

MARVAIR MAA2042HA090D++ZA1EAC32+AD
PELICAN THERMOSTAT MODEL TC3

### RADIO BUILDING

HP HEAT PUMP WALL MOUNT.
MARVAIR MAA2042HA090D++ZA1EAC32+AD
PELICAN THERMOSTAT MODEL TC3

HP HEAT PUMP WALL MOUNT.

MARVAIR MAA2042HA090D++ZA1EAC32+AD
PELICAN THERMOSTAT MODEL TC3

WEIGHT - INDOOR UNIT 41 LBS

WEIGHT - OUTDOOR UNIT 571 LBS

WEIGHT - OUTDOOR UNIT 90 LBS

COMMON FEATURES ON WALL MOUNTED UNITS HP-1 THRU HP14. 208/1/60

9KW SUPPLEMENTAL HEAT
2 STAGE COMPRESSOR
42,000 BTUH NOMINAL COOLING
HEAT PUMP
ECONOMIZER WITH FACTORY CO2 SENSOR
LOW AMBIENT W/ CCH & EFS
UV LIGHT
TOP SUPPLY BOTTOM RETURN
MERV 13 FILTER

CONDENSER COIL COATING

LOCKABLE ACCESS PLATE W/ TAMPER PROOF
STAINLESS STEEL FASTENERS AND DRAIN PAN
INSTALL ROUTER IN IT CLOSET SERVED BY HP-1
COORDINATE WITH IT DEPARTMENT FOR IP ADDRESS
SET SYSTEM UP FOR WEB ACCESS AND PROVIDE
2 HOURS TRAINING TO OWNER

COMMON FEATURES ON WALL MOUNTED UNITS HP-15 & HP16.

9KW SUPPLEMENTAL HEAT
2 STAGE COMPRESSOR
42,000 BTUH NOMINAL COOLING
HEAT PUMP
ECONOMIZER WITH FACTORY CO2 SENSOR
LOW AMBIENT W/ CCH & EFS
UV LIGHT
TOP SUPPLY BOTTOM RETURN
MERV 13 FILTER

CONDENSER COIL COATING

LOCKABLE ACCESS PLATE W/ TAMPER PROOF STAINLESS STEEL FASTENERS AND DRAIN PAN INSTALL PELICAN ROUTER IN IT RACK COORDINATE WITH IT DEPARTMENT FOR IP ADDRESS SET SYSTEM UP FOR WEB ACCESS AND PROVIDE 2 HOURS TRAINING TO OWNER

### M&O SHOPS

OUTDOOR UNIT SAMSUNG MODEL AM096BXVGJH. COOLING 86,003 BTUH, HEATING 91,600 BTUH @ 30°F. EER 13.7. WITH COATED COILS. ELECTRICAL DATA - 460/3/60 MCA 18.0 MOCP 20 WEIGHT - OUTDOOR UNIT 571 LBS

SPLIT SYSTEM. INDOOR UNIT SAMSUNG MODEL AM028TNVDCH. COOLING 18,543
BTUH, HEATING 29,000 BTUH @ 30°F. 600 CFM. SAMSUNG THERMOSTAT ADAPTER
MIM-A60UN. PELICAN TC3 THERMOSTAT
ELECTRICAL DATA- 208/1/60 MCA 0.54, MOP 15.
WEIGHT - INDOOR UNIT 28.7 LBS

SPLIT SYSTEM. INDOOR UNIT SAMSUNG MODEL AM032MNQDCH. COOLING 22,034
BTUH, HEATING 33,600 BTUH @ 30°F. 600 CFM. SAMSUNG THERMOSTAT ADAPTER
MIM-A60UN. PELICAN TC-3 THERMOSTAT
ELECTRICAL DATA- 208/1/60 MCA 0.7, MOP 15.

OUTDOOR UNIT SAMSUNG MODEL AM0120BXVGJH. COOLING 116,843 BTUH, HEATING 125,200 BTUH @ 30°F. EER 12.9. WITH COATED COILS. ELECTRICAL DATA - 460/3/60 MCA 19.4 MOCP 25

SPLIT SYSTEM. INDOOR UNIT SAMSUNG MODEL AM028TNVDCH. COOLING 18,543 BTUH, HEATING 29,000 BTUH @ 30°F. 600 CFM., SAMSUNG THERMOSTAT ADAPTER MIM-A60UN. PELICAN TC-3 THERMOSTAT ELECTRICAL DATA- 208/1/60 MCA 0.54, MOP 15. WEIGHT - INDOOR UNIT 28.7 LBS

SPLIT SYSTEM. INDOOR UNIT SAMSUNG MODEL AM032MNQDCH. COOLING 22,034
BTUH, HEATING 33,600 BTUH @ 30°F. 600 CFM. SAMSUNG THERMOSTAT ADAPTER
MIM-A60UN. PELICAN TC-3 THERMOSTAT
ELECTRICAL DATA- 208/1/60 MCA 0.7, MOP 15.
WEIGHT - INDOOR UNIT 41 LBS

OUTDOOR UNIT SAMSUNG MODEL AC018BXSCCC. COOLING 18,000 BTUH. EER2 8.1. WITH COATED COILS. ELECTRICAL DATA - 208/1/60 MCA 13.5 MOCP 15 OUTDOOR UNIT SHALL SUPPLY POWER TO INDOOR

SPLIT SYSTEM. INDOOR UNIT SAMSUNG MODEL AC018BNADCH. 500 CFM. WITH HARDWIRED SAMSUNG THERMOSTAT WEIGHT - INDOOR UNIT 26 LBS

INSTALL PELICAN ROUTER IN IT ROOM SERVED BY IU-5 COORDINATE WITH IT DEPARTMENT FOR IP ADDRESS SET SYSTEM UP FOR WEB ACCESS AND PROVIDE 2 HOURS TRAINING TO OWNER PACKAGE ROOFTOP UNIT. HEAT PUMP YORK MODEL XYE06A4B3AA1A111A2
EER 12.5. 5 TON NOMINAL COOLING, MERV 13 FILTERS, COATED CONDENSER COIL
ECONOMIZER WITH FAULT DETECTION. 1990 CFM. SET OUTSIDE AIR TO 340 CFM
ELECTRICAL DATA 460/3/60 MCA 15.1 AMPS, MOCP 20 AMPS
UNIT WEIGHT - 653 LBS

PACKAGE ROOFTOP UNIT. HEAT PUMP YORK MODEL XYE04A4B3AA1A111A2
EER 12.5. 3.0 TON NOMINAL COOLING, MERV 13 FILTERS, COATED CONDENSER COIL
ECONOMIZER WITH FAULT DETECTION. 1200 CFM. SET OUTSIDE AIR TO 340 CFM

ELECTRICAL DATA 460/3/60 MCA 11.8 AMPS, MOCP 15 AMPS
UNIT WEIGHT - 535 LBS

PACKAGE ROOFTOP UNIT. HEAT PUMP YORK MODEL XYE09A4B3AA1A111A2

EER 12.0. 8.5 TON NOMINAL COOLING, MERV 13 FILTERS, COATED CONDENSER COIL ECONOMIZER WITH FAULT DETECTION. 3400 CFM. SET OUTSIDE AIR TO 340 CFM
ELECTRICAL DATA 460/3/60 MCA 21 AMPS, MOCP 25 AMPS
UNIT WEIGHT - 1071 LBS WITH DUCT SMOKE DETECTOR SYSTEM SENSOR

PACKAGE ROOFTOP UNIT. HEAT PUMP YORK MODEL XYE06A4B3AA1A111A2

ELECTRICAL DATA 460/3/60 MCA 21 AMPS, MOCP 25 AMPS

UNIT WEIGHT - 1071 LBS WITH DUCT SMOKE DETECTOR SYSTEM SENSOR

PACKAGE ROOFTOP UNIT. HEAT PUMP YORK MODEL XYE06A4B3AA1A111A2

EER 12.5. 5 TON NOMINAL COOLING, MERV 13 FILTERS, COATED CONDENSER COIL

ECONOMIZER WITH FAULT DETECTION. 1990 CFM. SET OUTSIDE AIR TO 340 CFM

ELECTRICAL DATA 460/3/60 MCA 15.1 AMPS, MOCP 20 AMPS

UNIT WEIGHT - 653 LBS

### CONTROL SCHEDULE

THERMOSTAT. PELICAN MODEL TC3. PROGRAMMABLE. FOR INDOOR UNIT CONTROL. INSTALL ALL WIRING IN CONDUIT. INTERNET CONNECTIVITY. PROVIDE REPEATERS AS NEEDED FOR COMMUNICATION WITH GATEWAY. WITH CO2 SENSOR.

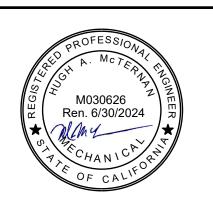
SAT PELICAN TEMP. & ALARM SENSOR, MODEL TA1. (INSTALL AT SUPPLY PLENUMS)

REPEATER. PELICAN WR400. INSTALL AS NEEDED FOR CAMPUS WIDE NETWORK. BUDGET 6 REPEATERS W/ FIBERGLASS ENCLOSURE. ELECT. 110 V.

GW GATEWAY. PELICAN GW 400. WIRELESS GATEWAY WITH CABLE AND 110V ADAPTER. 1 LOCATE IN IT ROOM

PE PELICAN PEARL ECONOMIZER CONTROLLER WITH FAULT DETECTION





## OLLEGE DISTRICT

### HVAC EQUIPMENT RETROFIT 4000 SOUTH ROSE AVENUE - OXNARD, CALIFO

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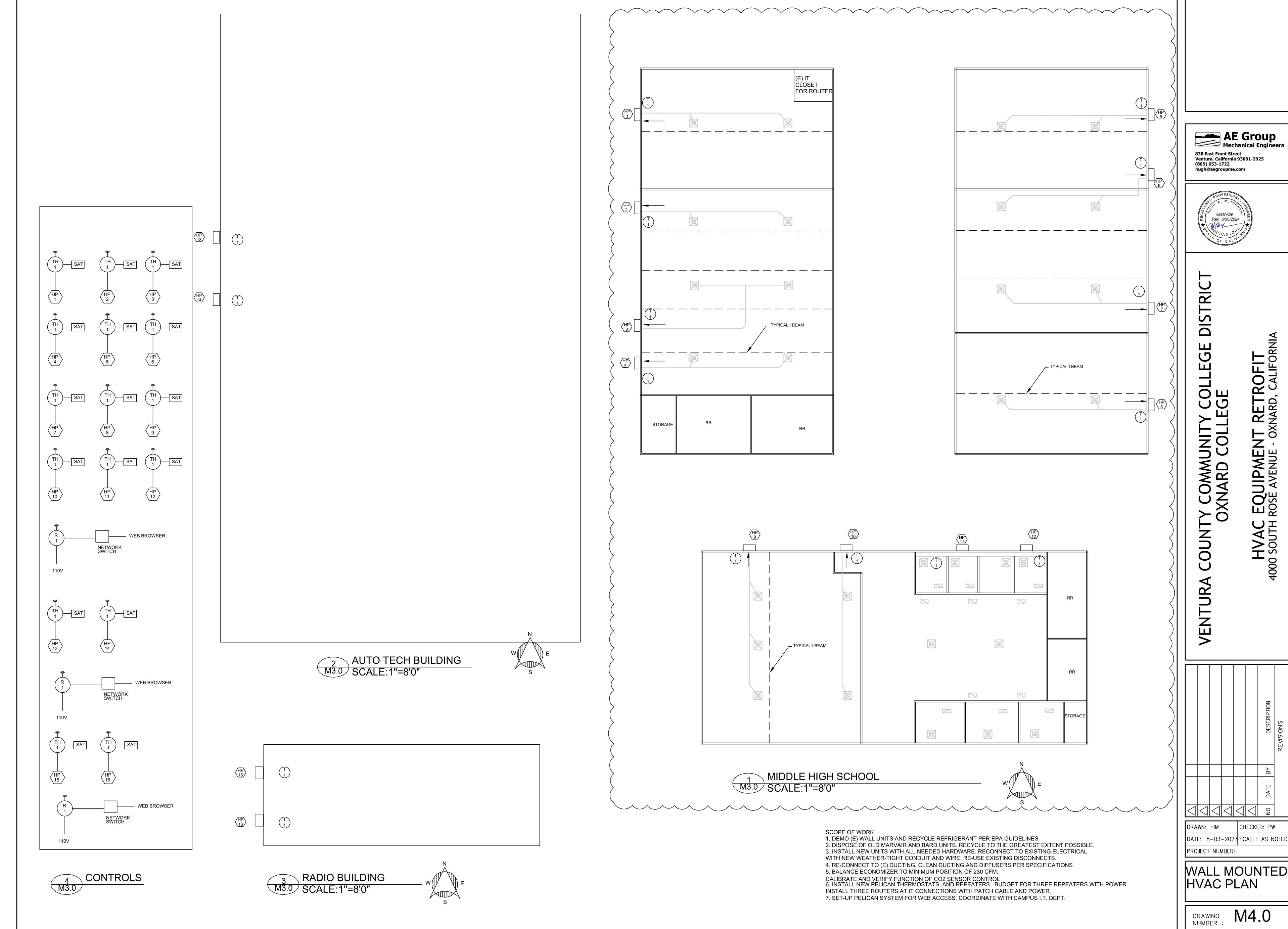
DRAWN: HM CHECKED: PW

DATE: 8-03-2023 SCALE: AS NOTED

PROJECT NUMBER:

EQUIPMENT SCHEDULES

DRAWING NUMBER:



AE Group

Mechanical Engineers

WALL MOUNTED