SIXTH STREET PREP STREAM



VICTOR ELEMENTARY SCHOOL DISTRICT

15476 6th St, Victorville, CA 92395

HVAC REPLACEMENT PROJECT





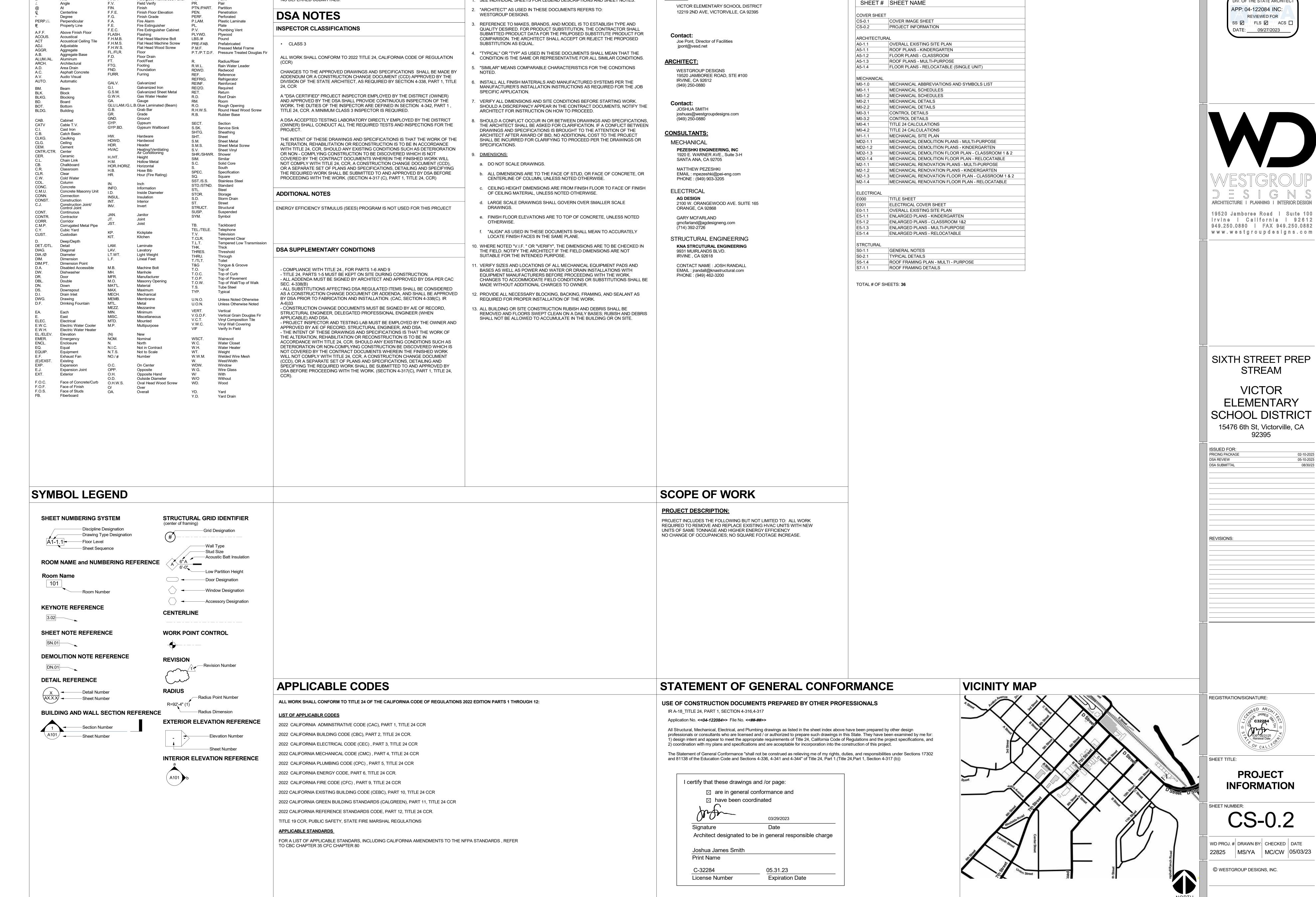
19520 Jamboree Road | Suite 100 Irvine I California I 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com

ISSUED FOR:		REVISIONS:	REGISTRATION/SIGNATURE:
PRICING PACKAGE	02-10-2023		1
DSA REVIEW	05-10-2023		
DSA SUBMITTAL	08/30/23		
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COVER IMAGE SHEET

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05/03/23 MC/CW



PROJECT DIRECTORY

OWNER:

SHEET INDEX

ABBREVIATIONS

Fiberglass Reinforced Panel

DEFERRED SUBMITTALS

NO DEFERRED SUBMITTALS.

GENERAL NOTES

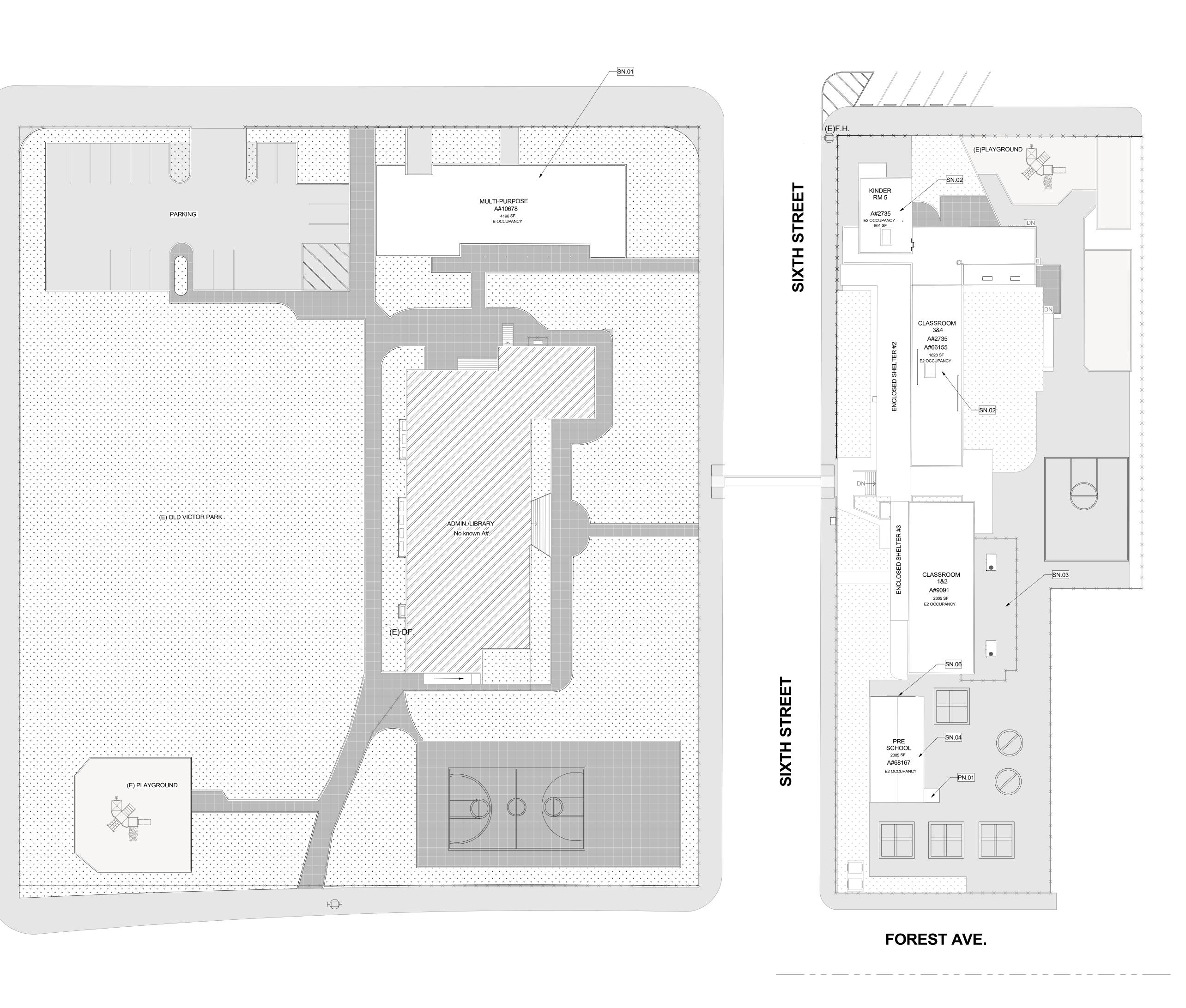
SEE INDIVIDUAL SHEETS FOR LEGEND DESCRIPTIONS AND SHEET NOTES

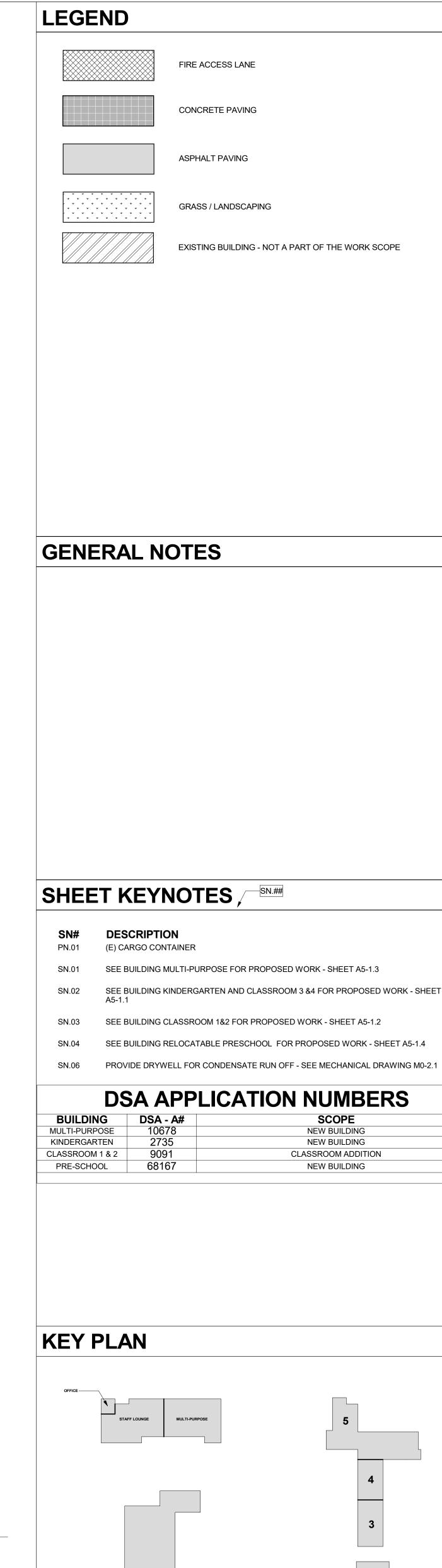
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

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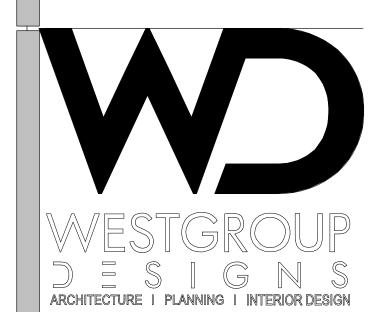
SIXTH STREET PREP

15476 6th St, Victorville, CA





IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122084 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □



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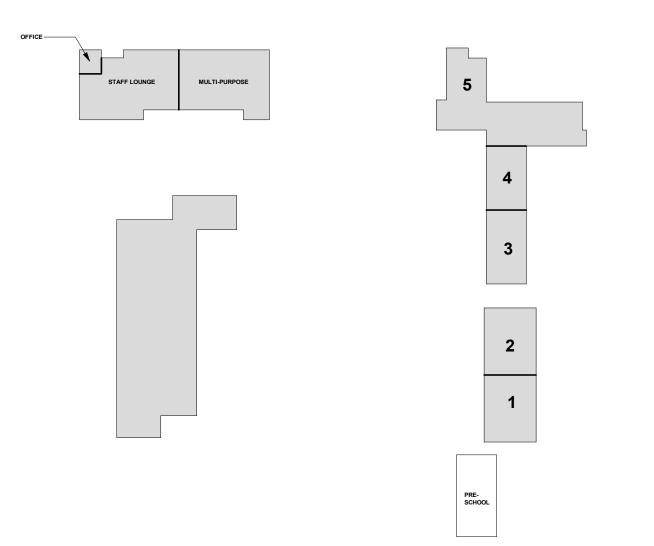
VICTOR ELEMENTARY SCHOOL DISTRICT

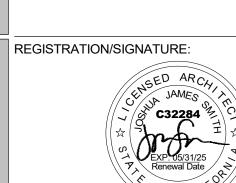
15476 6th St, Victorville, CA 92395

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ISSUED FOR:	
PRICING PACKAGE	02-10-2023
DSA REVIEW	05-10-2023
DSA SUBMITTAL	08/30/23
	PRICING PACKAGE DSA REVIEW

DSA APPLICATION NUMBERS

BUILDING	DSA - A#	SCOPE
MULTI-PURPOSE	10678	NEW BUILDING
KINDERGARTEN	2735	NEW BUILDING
CLASSROOM 1 & 2	9091	CLASSROOM ADDITION
PRE-SCHOOL	68167	NEW BUILDING
II		





OVERALL EXISTING SITE PLAN

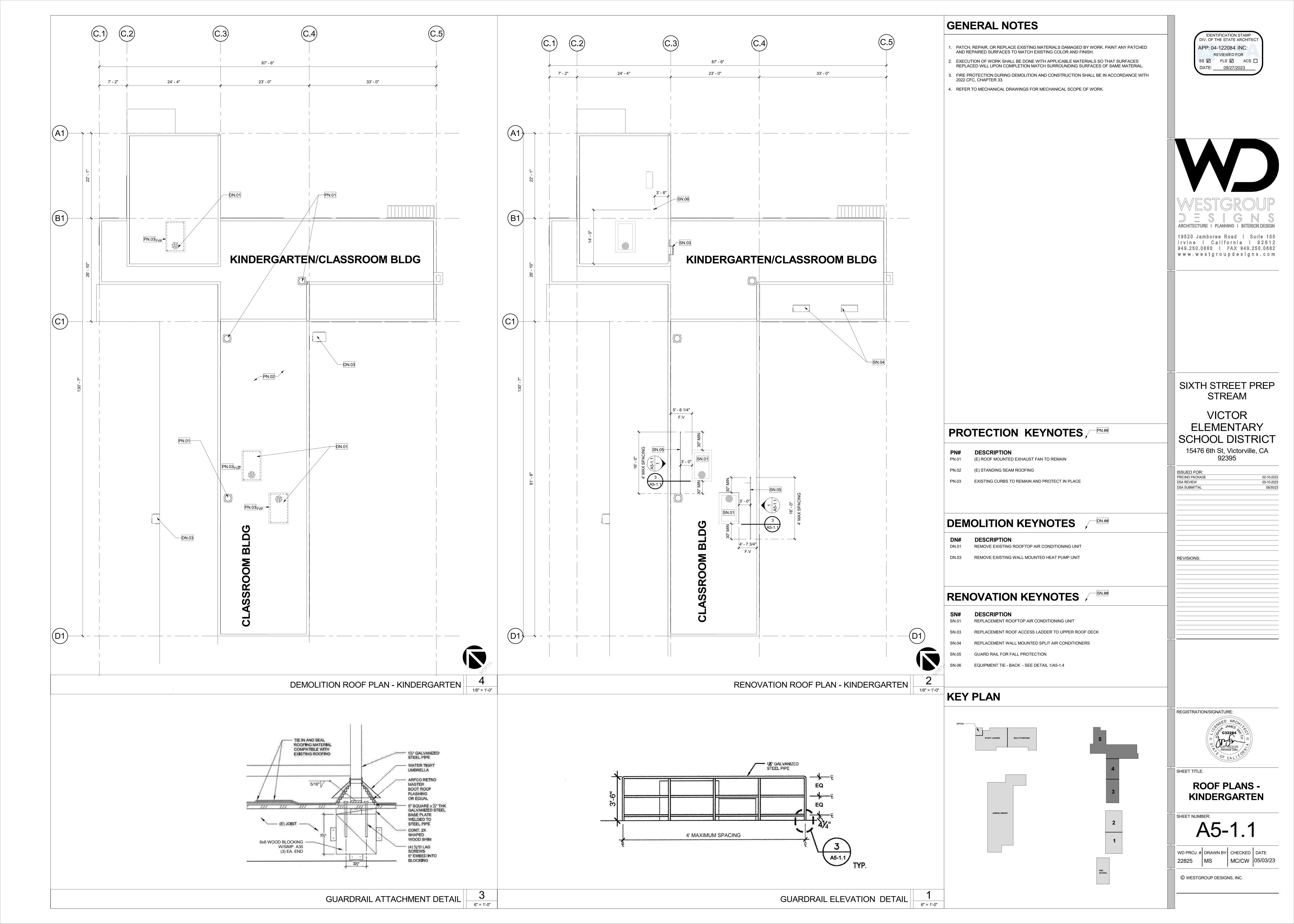
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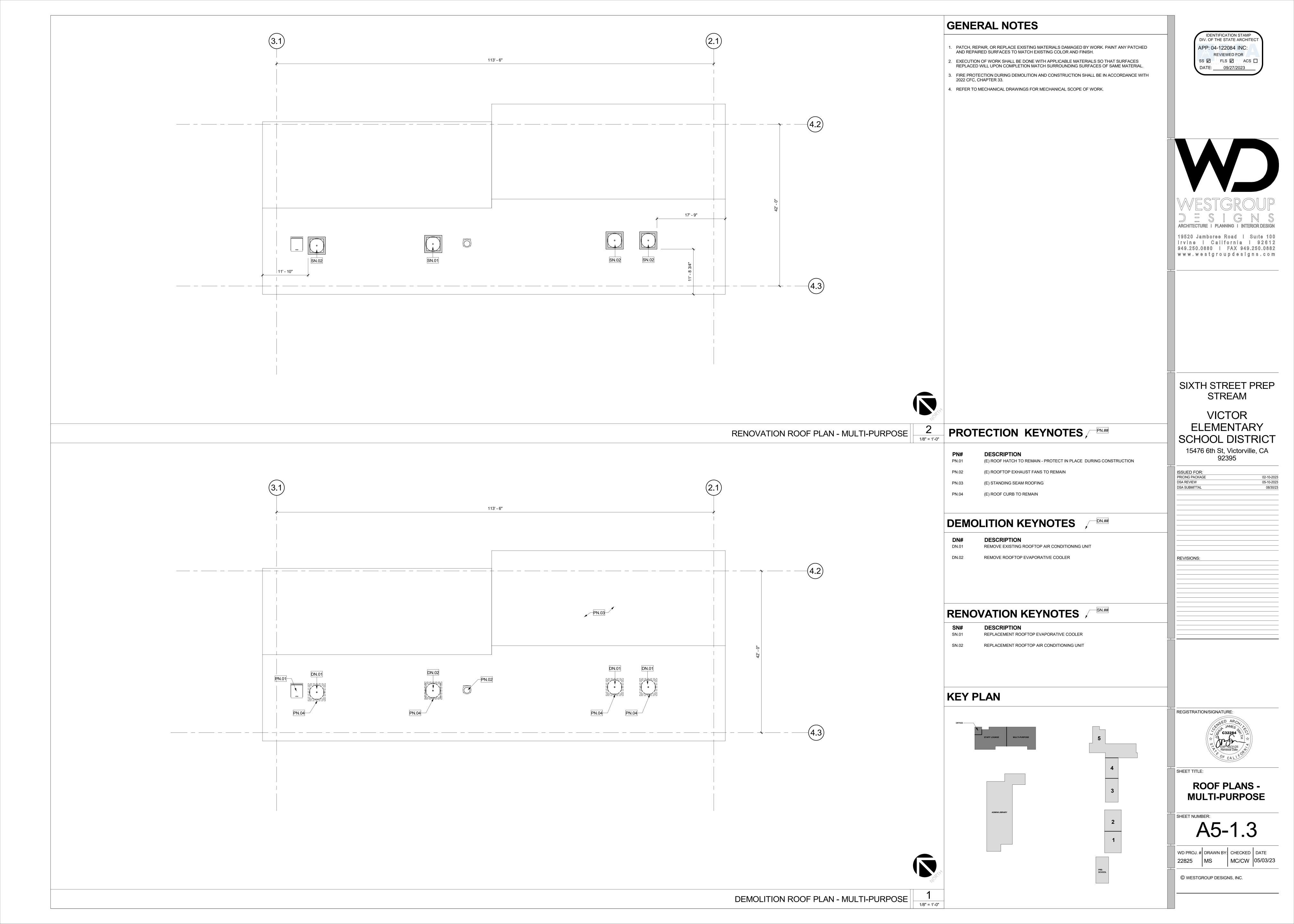
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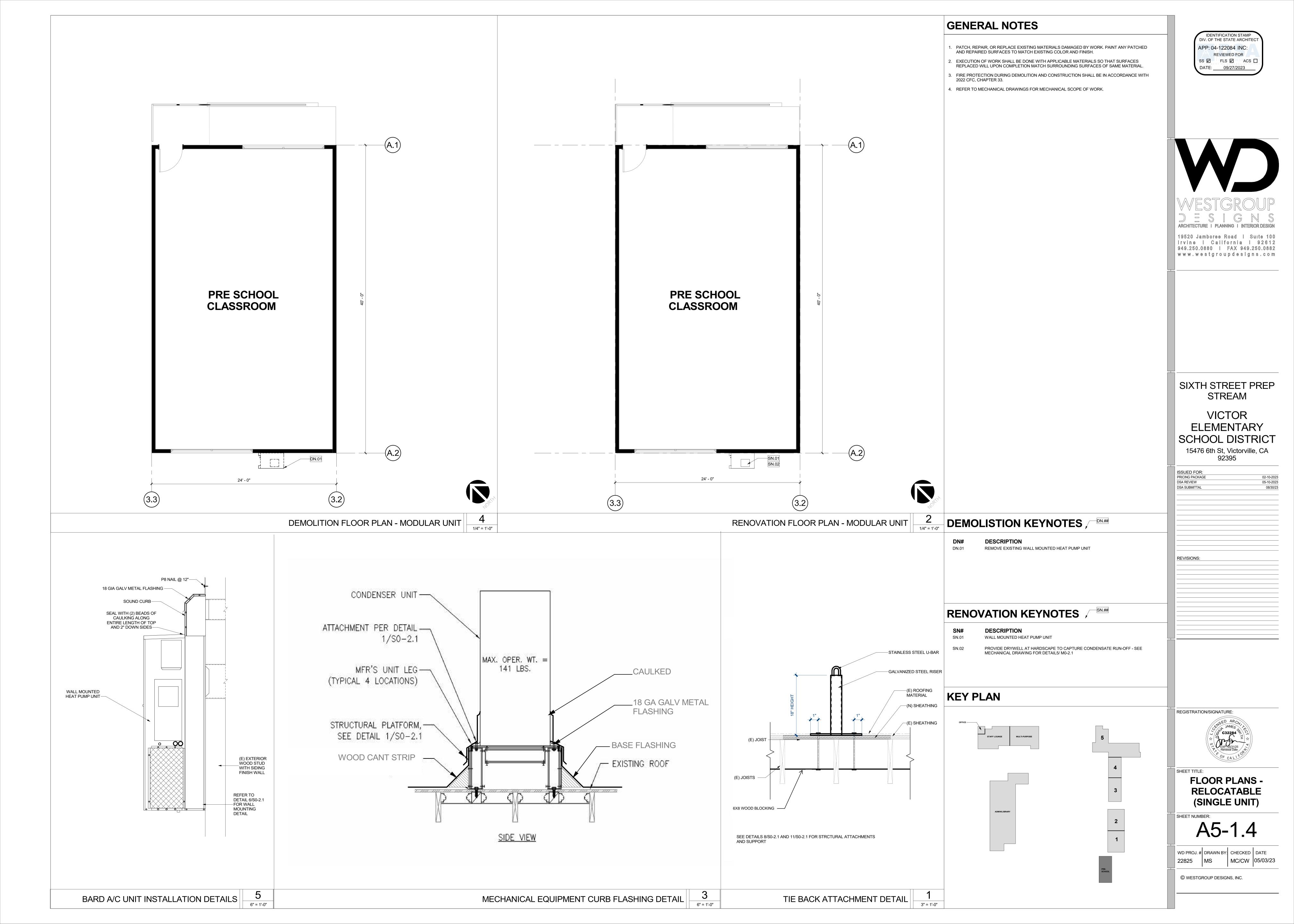
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OVERALL EXISTING O SITE PLAN









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 AIR HANDLING UNIT MPS MEDIUM PRESSURE STEAM 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR 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 MV 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 BUTTERFLY VALVE BFV BRAKE HORSEPOWER OPPOSED BLADE DAMPER BACKWARD INCLINED OAI OUTSIDE AIR INTAKE TOP OF THERMOSTAT TOP OF THERMOSTAT, BACKWARD INCLINED WHEEL OUTSIDE DIAMETER -24" MAX--- SWITCHES, AND CONTROLS. BLV OPW OPERATING WEIGHT BALL VALVES BRITISH THERMAL UNIT OUTSIDE AIR BTUH OV OUTLET VELOCITY BTU PER HOUR 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 COOLING COIL 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 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 CV VALVE 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) DEMAND CONTROLLED VENTILATION RETURN AIR 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26, AND 30: RETURN AIR REGISTER $\mathsf{D}\!-\!\mathsf{D}$ DOUBLE DEFLECTION (PATTERN) RAG 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. RETURN AIR GRILLE DUCT ACCESS DOOR RECTANGULAR (FACE) 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD REFRIGERANT DISCHARGE LINE DRY BULB RD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER. DEMAND CONTROLLED VENTILATION RD ROOF DRAINS "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE. DIAM DIAMETER REG REGISTER DIFF 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR DIFFUSER RELIEF GRILLE DOOR LOUVER HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF REHEATING COIL DRAIN REFRIGERANT LIQUID LINE LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A — - — S MANNER APPROVED BY DSA. REVOLUTION PER MINUTE E (NAME) EXISTING PIPE RS REFRIGERANT SUCTION LINE RELIEF VALVE THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO EXTERNAL STATIC PRESSURE 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 EER ENERGY EFFICIENCY RATIO SAC SPLIT AIR CONDITIONER THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS SUPPLY AIR DIFFUSER MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS. FXHAUST FAN ——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 FIRE DAMPER SOUND TRAP PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY 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 TCV AUTOMATIC TEMPERATURE CONTROL 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 TEMP GPM 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 $\mathsf{MP}\square$ $\mathsf{MD}\square$ $\mathsf{PP}\square$ $\mathsf{E}\square$ 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 HWR HOT WATER RETURN VENT OR ATMOSPHERIC RELIEF 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 ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA GREEN BUILDING STANDARDS (5.504.4.1 CAL GREEN)

DUCTWORK SYMBOLS RETURN AIR DUCT UP SUPPLY AIR DUCT UP EXHAUST AIR DUCT UP RETURN AIR DUCT DOWN SUPPLY AIR DUCT DOWN EXHAUST AIR DUCT DOWN ELBOWS WITH TURNING VANES TEE DUCT WITH TURNING VANES DUCT WITH INSULATION WRAP =---= DUCT WITH ACOUSTICAL LINING ROUND TO ROUND TRANSITION OR —WWW FLEXIBLE DUCT SUPPLY AIR RECTANGULAR CEILING DIFFUSER 4-WAY AIR FLOW UNLESS SPECIFIED ON THE FLOOR PLANS, 300 CFM, SEE AIR DISTRIBUTION SCHEDULE FOR SIZE AND MODEL RETURN AIR RECTANGLAR CEILING REGISTER /GRILLE, 250 CFM, SEE AIR DISTRIBUTION SCHEDULE FOR SIZE AND MODEL 350 EXHAUST AIR GRILLE, 350 CFM, SEE AIR DISTRIBUTION SCHEDULE FOR SIZE AND MODEL. SIDE WALL REGISTER SUPPLY AIR SIDE WALL REGISTER RETURN AIR DUCT SMOKE DETECTOR BACK DRAFT DAMPER (w/ direction of flow) MANUAL VOLUME DAMPER DOOR LOUVER UNDERCUT (DOOR) THERMOSTAT # CORRESPONDS WITH UNIT NUMBER, SEE DETAIL BELOW. BY-PASS TIMER NIGHT THERMOSTAT RETURN AIR THERMOSTAT DUCT SMOKE DETECTOR TIME SWITCH TWIST TIMER OVERRIDE SWITCH DOOR SENSOR DUCT DETECTOR WALL SWITCH DIAMETER / ROUND SQUARE FEET ZONE CONTROL DAMPER BY-PASS DAMPER POINT OF CONNECTION POINT OF REMOVAL PIPING SYMBOLS PIPING BRANCH PIPE DROP PIPE RISE COORDINATION 1- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW IN GENERAL WHERE THE DUCTWORK, PIPING AND OTHER WORK SPECIFIED IN THE HVAC SECTIONS OF THE SPECIFICATIONS IS TO BE LOCATED. THE DRAWINGS DO NOT NECESSARILY INDICATE ANY AND ALL OFFSETS AND CONFIGURATIONS REQUIRED FOR COORDINATION WITH THE SPACE REQUIREMENTS OF OTHER

- TRADES. THE CONTRACTOR IS RESPONSIBLE FOR THE CORRECT PLACING, LOCATION, AND CONNECTION OF THIS WORK IN RELATION TO THE WORK OF OTHER TRADES.
- 2- THE CONTRACTOR SHALL EXAMINE AND COORDINATE WITH ALL MECHANICAL, PLUMBING, CIVIL, 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 DUCTWORK ROOF/WALL OPENINGS AND WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT.

POLLUTANT CONTROL NOTES

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

- ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE ACOUSTICALLY LINED FROM

GENERAL NOTES

- ?— 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.

I — ALL DUCT DIMENSIONS ON DRAWINGS TO BE INSIDE CLEAR.

- 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.
- 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. 7- SYMBOLS AND ABBREVIATIONS ON THIS SHEET ARE SHOWN FOR

NOT DISTURB, HANDLE OR ATTEMPT TO REMOVE.

- 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
- 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

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

3- ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR

ELEMENTS TO BE DONE ONLY WHEN SO DETAIL IN THE DRAWINGS OR ACCEPTED BY THE

2- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL

GENERAL DEMOLITION NOTES

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,

EQUIPMENT AND SYSTEMS. VERIFY ALL SPECIFIC DEMOLITION WORK PRIOR TO COMMENCING.

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

MECHANICAL EQUIPMENT AND SYSTEMS. PATCHING SHALL BE OF THE SAME MATERIALS,

WORKMANSHIP AND FINISH AS AND ACCURATELY MATCH SURROUNDING WORK TO THE

3- WHERE NEW PARTITIONS OR OTHER CONSTRUCTION AND/OR INSTALLATION OF NEW CEILING

INTERFERES WITH THE EXISTING AIR DISTRIBUTION SYSTEM. MODIFY THE AIR OUTLETS /

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

FAMILIAR WITH ALL FEATURES OF THE BUILDING AND SITE, WHICH MAY AFFECT THE PROPER

SPECIFICALLY SPECIFIED ON PLANS. REMOVE FROM PREMISES AND DISPOSE OF ALL

5- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND BECOME THOROUGHLY

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

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.

B. SCHEDULES INDICATING PROPOSED METHODS AND SEQUENCE OF OPERATION FOR SELECTIVE

A. CONDITIONS AFFECTING SELECTIVE DEMOLITION: THE FOLLOWING PROJECT CONDITIONS APPLY:

REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION OPERATIONS ARE COMPLETE

1. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE

2. LOCATE, IDENTIFY, AND PROTECT MECHANICAL SERVICES PASSING THROUGH DEMOLITION AREA

A. COORDINATE THE SHUT-OFF AND DISCONNECTION OF UTILITY SERVICES WITH THE OWNER AND THE

A. EXAMINE AREAS WHERE SELECTIVE DEMOLITION IS TO OCCUR. DETERMINE EXTENT OF WORK AND

EQUIPMENT INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR SAVED.

C. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED

D. MECHANICAL MATERIALS AND EQUIPMENT: DEMOLISH, REMOVE, DEMOUNT, AND DISCONNECT THE

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.

MATERIALS AND EQUIPMENT TO THE LOCATION DESIGNATED FOR STORAGE.

2. PERFORM CUTTING AND PATCHING REQUIRED FOR DEMOLITION.

B. MATERIALS AND EQUIPMENT TO BE SALVAGED: REMOVE, DEMOUNT, AND DISCONNECT EXISTING

MECHANICAL MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND SALVAGED, AND DELIVER

AFFECT ON EXISTING CONDITIONS TO REMAIN. ADVISE ARCHITECT OF ANY CONDITIONS THAT MIGHT

B. NOTIFY THE ARCHITECT AT LEAST 5 DAYS PRIOR TO COMMENCING DEMOLITION OPERATIONS.

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

1. COORDINATE SEQUENCING AND OWNER OCCUPANCY SPECIFIED IN DIVISION 01.

2. COORDINATE OTHER SELECTIVE DEMOLITION WORK AS OUTLINED IN DIVISION 01.

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

A. GENERAL: SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT AND DIVISION 01

SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY,

INLETS AND ASSOCIATED DUCTWORK AND ACCESSORIES AS REQUIRED TO MATCH THE NEW

FOR THE PROPER INSTALLATION OF MECHANICAL WORK OR REMOVAL OF EXISTING

MATERIALS, SERVICES AND EQUIPMENT REQUIRED FOR THE REMOVAL OF EXISTING HVAC

THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

ARCHITECTURAL LAYOUT TO SATISFACTION OF THE ARCHITECT.

MATERIALS CONSIDERED BY ARCHITECT TO BE SCRAP.

WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR.

UTILITY SERVICES AND DETAILS FOR DUST AND NOISE CONTROL.

SATISFACTION OF THE ARCHITECT.

PERFORMANCE OF THIS WORK.

2 GENERAL CONDITIONS

3 PROJECT CONDITIONS

4 SEQUENCE AND SCHEDULING

5 EXAMINATION

6 SELECTIVE DEMOLITION

FOLLOWING ITEMS:

JURISDICTION.

C. PERFORM DEMOLITION IN PHASES AS INDICATED.

CREATE EXTENSIVE ALTERATIONS BEYOND INDICATED SCOPE.

MATERIALS AND EQUIPMENT NOT INDICATED TO BE SALVAGED.

CONTROLS, FIXTURES, AND INSULATION.

ARCHITECT WITH THE APPROVAL OF DSA/AHJ.

AND 23 SPECIFICATION SECTIONS.

- 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
- ARCHITECT, STRUCTURAL ENGINEER AND DSA FIELD ENGINEER OR AHJ. 6- A COPY OF THE MANUAL PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR

GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECTED TO THE APPROVAL OF THE

- AND KEPT ON THE JOB AT ALL TIMES. 7- DESIGN CRITERIA
- BASIC DESIGN WIND SPEED V = 115 MPH EXPOSURE CATEGORY = CSDS = 0.95SITE CLASS = D-DEFAULT

GROUND SNOW LOAD = 5 PSF

RISK CATEGORY = III

COMBINATION SMOKE/FIRE DAMPER NOTE

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

DUCT LINING NOTE

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.

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

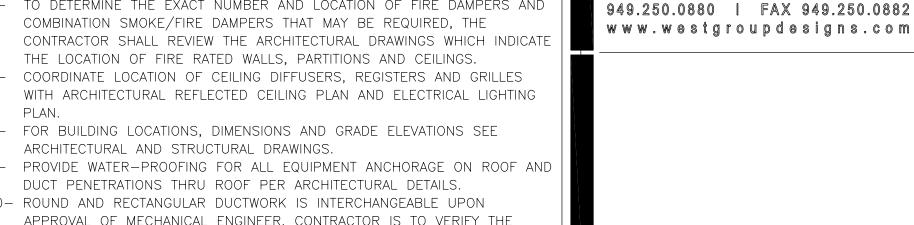
1- TEMPERATURE THERMOSTAT: TEMPERATURE RANGE 55°F TO 85°F SEQUENCE HEATING AND COOLING, ADJUSTABLE TO 10°F BETWEEN HEATING AND COOLING, CAPABILITY TO TERMINATE ALL HEATING AT NO MORE THAN 70°F AND TERMINATE ALL COOLING AT NOT LESS THAN 78°F OR PROVIDE T-STAT TO MEET THE OWNER'S STANDARDS, WHERE APPLICABLE. 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 STAME DIV. OF THE STATE ARCHITEC

SS 🗹 FLS 🗹 ACS 🗌

ARCHITECTURE I PLANNING I INTERIOR DESIGN

19520 Jamboree Road | Suite 100

Irvine I California I 92612

APP: 04-122084 INC: REVIEWED FOR

DATE: 09/27/2023



Telephone (714) 884-3834

Fax (714) 884-3834

PEI #600.030 SIXTH STREET PREP

ELEMENTARY

STREAM

SCHOOL DISTRICT 15476 6TH ST VICTORVILLE, CA 92395

ISSUED FOR:
-
-

REGISTRATION/SIGNATURE:



MECHANICAL ABBREVIATIONS AND SYMBOLS LIST

WD PROJ. # DRAWN BY: CHECKED DATE

SI	PLIT	AIR CONDITIONER SCHEDULE	
UNI	IT SYM	1BOL	SAC-K1,K2
MAI	NUFAC	TURER	TOSHIBA CARRIER
TYF	PE		HIGH WALL
BUI	ILDING		KINDERGARTEN
	MOD	EL	RAV-SM242KRTP-UL
	LOC	ATION	CORRIDOR
	BLO'	WER — CFM	706 / 530 / 353
- z	SNI	RATED CAPACITY — MBH	24.0
	COOLING	EER2 / SEER2	11.8 / 22.7
0	HEATING	RATED CAPACITY -MBH	34.0
		HSPF2	10.3
_		COP2 (47°F)	3.2
	DIMENSIONS (HxWxD) - IN		12.6 x 41.5 x 9.8
	WEIGHT - LBS		33
	MOD	EL	RAV-SP242AT2P-UL
 	LOCATION		ROOF
Z	REF	RIGERANT TYPE	R410A
0	MCA	/ MOCP	17.0 / 25.0
0 0	VOL	TS / PHASE	208 / 1
⊢ ∩	DIME	ENSIONS (HxWxD) — IN	35 x 35 x 13
0	WEIG	GHT — LBS	141
DET	TAIL R	EFERENCE	1,2,3/MO-2.2
REN	MARKS		1,2,3
	RFM	IARKS	<u> </u>

- 1- INDOOR UNIT POWERED FROM OUTDOOR UNIT.
- 2- REFRIGERANT AND SUCTION LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATION BASED ON ACTUAL DISTANCE BETWEEN INDOOR AND OUTDOOR UNITS.
- 3- PROVIDE WIRED THERMOSTAT.

EVAPORATIVE COOLER SCHEDULE (MULTI-PURPOSE)		
UNIT SYMBOL	EC-M1	
LOCATION	ROOF	
SHEET REFERENCE	M2-1.1	
MANUFACTURER	PHOENIX MANUFACTURING, INC.	
MODEL	FD 650	
TYPE	DOWN DISCHARGE	
SERVICE	KITCHEN	
FAN - CFM	4710	
FAN MOTOR - HP	0.75	
VOLTS - PHASE	120/240 – 1	
OPERATING WEIGHT LBS	290	
DETAIL REFERENCE	9/M0-2.1	

REMARKS

- 1- PROVIDE MANUFACTURER'S AUTOMATIC DRAIN PUMP KIT.
- 2- ELECTRONICALLY TIED TO EXISTING EXHAUST FAN(S). 3- PROVIDE FIRE MARSHAL APPROVED DUCT SMOKE DETECTOR FOR AIR MOVING SYSTEM SUPPLYING IN EXCESS OF 2000 CFM FOR AUTOMATIC SHUT OFF. IF BUILDING IS SERVED BY TOTAL COVERAGE SMOKE-DETECTION SYSTEM, AUTOMATIC UNIT SHUT OFF CAN BE ACCOMPLISHED BY INTERCONNECTION TO SUCH SYSTEM.

EXISTING EVAPORATIVE COOLER AND NEW EVAPORATIVE COOLER COMPARISON SCHI	EDULE (MULT	T-PURPOSE)
UNIT SYMBOL	EC-	-M1
MANUFACTURER	ADOBE AIR	PHOENIX
CONDITION	EXISTING	NEW
MODEL	UND65	FD 650
DIMENSIONS (LxWxH) - IN	37 x 37 x 42	37 x 37 x 42.25
UNIT WEIGHT — LBS	250	290
CURB WEIGHT — LBS	N/A	N/A
CURB ADAPTER WEIGHT — LBS	N/A	N/A
ECONOMIZER WEIGHT — LBS	N/A	N/A
TOTAL WEIGHT — LBS	250	290

UNIT	SYMBOL	HP-K1,R1
LOCA	ATION	KINDERGATEN
SHEE	T REFERENCE	M1-1.1/ M2-1.2/M2-1.4
MANU	JFACTURER	BARD
MODE	ĒL	T48S1-A04DM4XXE
TYPE		HEAT PUMP/ WALL MOUNTED
SERV	/ICE	SEE FLOOR PLANS
BLOV	VER — CFM	1550
EXTE	RNAL S.P. — "WG	0.03
OUTS	SIDE AIR — CFM	450
BLOV	VER MOTOR — HP	0.75
	TOTAL CAPACITY - MBH	46.5
	SENSI. CAPACITY — MBH	36.0
	EAT - °F - DB	80.0
COOLING	EAT - °F - WB	67.0
000	LAT — °F — DB	58.5
	LAT - °F - WB	57.6
	AMBIENT AIR TEMP °F	95.0
	MIN. EER	11.0
	ELECTRIC RESISTANCE HEAT - KW	4.0
	HEATING OUTPUT - MBH	43.0
HEATING	EAT - °F - DB	70.0
HEA	LAT - °F - DB	83.9
	AMBIENT AIR TEMP °F	10.0
	MIN. COP - %	2.3
<u>.</u>	SIZE W"xH"xL"	2 × 20 × 30
FILTER	QUANTITY	1
ш.	TYPE	2" PLEATED MERV-1
VOLT	S — PHASE	208/230 - 1
MCA	/ MOCP	57 / 60
OPE	RATING WEIGHT (LBS)	605
DIME	NSIONS (H"xW"xD")	93 x 42.075 x 22.432
DETA	IL REFERENCE	5/M0-2.1

- 1- PROVIDE WITH MANUFACTURER'S ECONOMIZER PACKAGE. 2- MATCH COLOR WITH BUILDING FINISH AND RECEIVE APPROVAL FROM
- OWNER/ARCHITECT PRIOR TO ORDERING. 3— IT IS THE INTENT THAT THE EXISTING WALL OPENINGS (WHERE REPLACEMENT OF UNITS IS INDICATED) ARE ADEQUATE WITHOUT ENLARGEMENT. IF ANY INCREASE IN THE EXISTING OPENING ÍS 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.

EXISTING WALL MOUNTED HEAT PUMP AND NEW WALL MOUNTED HEAT PUMP COMPARISON SCHEDULE				
RELOCATABLE NUMBER	PRESC RELOCA		KINDER(BUILI	
UNIT SYMBOL	HP-	-R1	HP-	-K1
MANUFACTURER	BARD	BARD	BARD	BARD
CONDITION	EXISTING	NEW	EXISTING	NEW
MODEL	WH421	T48S1	WH482	T48S1
TYPE	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
CFH INPUT	N/A	N/A	N/A	N/A
DIMENSIONS (H"xW"xD") - IN	84.875 x 42.075 x 22.432	93 x 42.075 x 22.432	84.875 x 42.075 x 22.432	93 x 42.075 x 22.432
UNIT WEIGHT — LBS	555	605	565	605
TOTAL WEIGHT — LBS	555	605	565	605



19520 Jamboree Road | Suite 100 Irvine I California I 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com

ARCHITECTURE I PLANNING I INTERIOR DESIGN



PEI #600.030

Telephone (714) 884-3834

Fax (714) 884-3834

SIXTH STREET PREP STREAM

ELEMENTARY SCHOOL DISTRICT 15476 6TH ST VICTORVILLE, CA 92395

ISSUED FOR:		

REVISIONS:		

REGISTRATION/SIGNATURE:

MECHANICAL

WD PROJ. # DRAWN BY: CHECKED DATE

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JNIT SYMBOL		AC-K1	AC-K2	AC-K3
LOCATION		ROOF	ROOF	ROOF
SERVICE		KINDERGARTEN ROOM 05	CLASSROOM 04	CLASSROOM 03
SHEET REFERE	INCE	M2-1.2	M2-1.2	M2-1.2
1ANUFACTUREF	?	CARRIER	CARRIER	CARRIER
MODEL		48FCEM12	48FCDM08	48FCDM08
YPE		GAS/ELEC	GAS/ELEC	GAS/ELEC
ISCHARGE		SIDE	SIDE	SIDE
	INDOOR FAN - CFM	5000	3000	3000
Y FAN	MIN. OUTSIDE AIR — CFM	450	450	450
SUPPLY	EXTERNAL S.P "WG	1.20	1.40	1.40
<i>(</i>)	BLOWER BHP / RPM	3.43 / 2156	2.04 / 1760	2.04 / 1760
	EVAP. EAT — °F — DB	80.0	80.0	80.0
	EVAP. EAT — °F — WB	67.0	67.0	67.0
	EVAP. LAT — °F — DB	61.1	61.5	61.5
	EVAP. LAT — °F — WB	60.1	59.0	59.0
9 N	CND. EAT — °F — DB	115.0	115.0	115.0
COOLING	COOLING CAPACITY — MBH	112.43	78.11	78.11
	COOLING CAPACITY SENSIBLE — MBH	102.04	59.81	59.81
	REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 7.6	R410A / 7.6	R410A / 7.6
	ARI EER / SEER OR IEER	11.00 / 15.00	11.20 / 15.00	11.20 / 15.00
	COMPRESSOR INPUT - KW	11.57	8.13	8.13
	INDOOR COIL EAT - °F - DB	65.0	65.0	65.0
HEATING	INDOOR COIL LAT - °F - DB	98.5	96.8	96.8
HEA	HEATING INPUT - STAGE / MBH	(2) 180.0/224.0	(1) 125.0	(1) 125.0
	MIN AFUE %	80.0	80.0	80.0
	COMPRESSOR NO. / RLA (EA)	2 / 15.6	2 / 13.1	2 / 13.1
_1	OUTDOOR FAN MOTOR NO. / FLA (EA)	2 / 1.5	2 / 1.5	2 / 1.5
ELECTRICAL	INDOOR FAN MOTOR FLA	12.6	7.5	7.5
ELEC	COMBUSTION FAN MOTOR NO. / FLA (EA)	1 / 0.48	1 / 0.48	1 / 0.48
	MCA / MOP	51 / 60	40 / 50	40 / 50
	VOLTAGE / PHASE	208 / 3	208 / 3	208 / 3
ILTER TYPE		2" - MERV-13	2" - MERV-13	2" - MERV-13
ONDENSER C	OIL HAIL GUARD (LOUVERED)	REQUIRED	REQUIRED	REQUIRED
LUE DEFLECT	OR	REQUIRED	REQUIRED	REQUIRED
CONOMIZER N	MANUFACTURER / MODEL NO.	MICROMETL ECH-SRT34CB-D0DB-4	MICROMETL ECH-SRT34CB-D0DB-4	MICROMETL ECH-SRT34CB-DODB-
OWER EXHAUS	ST MANUFACTURER / MODEL NO.	N/A	N/A	N/A
JRB MANUFA	CTURER / MODEL NO.	EXISTING	EXISTING	EXISTING
HIM CURB MA	ANUFACTURER / MODEL NO.	N/A	N/A	N/A
perating we	IGHT (LBS)	976	856	856
IMENSIONS (L	_"xW"xH")	88.1" x 59.5" x 49.4"	88.1" × 59.5" × 41.3"	88.1" x 59.5" x 41.
etail refere	INCE	6/M0-2.1	6/M0-2.1	6/M0-2.1
REMARKS		1 2 3 4 5 6 7	1234567	1234567

REMARKS

REMARKS

- 1— UNIT COMPLETE WITH MODULATING ECONOMIZER WITH 100% OUTSIDE AIR INTAKE, CONVENIENCE OUTLET, LOUVERED HAIL GUARD, FLUE DEFLECTOR.
- 2- OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT, ACCESSORIES AND ECONOMIZER.
 3- 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. 4- VARIABLE SPEED INDOOR FAN.
- 5- PROVIDE LOW SOUND OUTDOOR FAN. 6- PROVIDE FACTORY MOUNTED AND TESTED BIPOLAR IONIZATION SYSTEM PER UNIT SPECIFICATION REQUIREMENTS. MANUFACTURER SHALL PROVIDE

1,2,3,4,5,6,7

1,2,3,4,5,6,7

1,2,3,4,5,6,7

A TRANSFORMER PACKAGE TO INTERNALLY POWER THE BIPOLAR IONIZATION. 7- INTERLOCK EXISTING ROOM EXHAUST FAN WITH NEW UNIT OPERATION.

UNIT SYMBOL	AC	-K1	AC-	-K2	AC-	-K3
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
CONDITION	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW
MODEL	48HJD014	48FCEM12	48HJD008	48FCDM08	48HJD008	48FCDM08
DIMENSIONS (LxWxH) - IN	87.4 x 57.75 x 49.	4 88.1 x 59.5 x 49.4	87.4 x 57.75 x 41.3	88.1 x 59.5 x 41.3	87.4 x 57.75 x 41.3	88.1 x 59.5 x 41
UNIT WEIGHT — LBS	1050	865	870	745	870	745
CURB WEIGHT — LBS	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
ECONOMIZER WEIGHT - LBS	145	111	145	111	145	111
POWER EXHAUST WEIGHT — LBS	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL WEIGHT — LBS	1195	976	1015	856	1015	856

UNIT SYMBOL		AC-C1	AC-C2
LOCATION		GRADE	GRADE
SERVICE		CLASSROOM 01	CLASSROOM 02
SHEET REFERE	ENCE	M2-1.3	M2-1.3
MANUFACTURE	₹	CARRIER	CARRIER
MODEL		48FCDM08	48FCDM09
TYPE		GAS/ELEC	GAS/ELEC
DISCHARGE		SIDE	SIDE
	INDOOR FAN — CFM	3000	3400
FAN	MIN. OUTSIDE AIR — CFM	450	450
SUPPLY	EXTERNAL S.P. — "WG	1.00	1.20
S	BLOWER BHP / RPM	1.52 / 1600	1.76 / 1702
	EVAP. EAT — °F — DB	80.0	80.0
	EVAP. EAT — °F — WB	67.0	67.0
	EVAP. LAT — °F — DB	61.5	59.9
	EVAP. LAT — °F — WB	59.0	58.9
(5)	CND. EAT — °F — DB	115.0	115.0
COOLING	COOLING CAPACITY — MBH	78.11	89.14
0	COOLING CAPACITY SENSIBLE — MBH	59.81	73.71
	REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 7.6	R410A / 7.6
	ARI EER / SEER OR IEER	11.20 / 15.00	11.20 / 15.00
	COMPRESSOR INPUT - KW	8.13	8.78
	INDOOR COIL EAT - °F - DB	65.0	65.0
9 Z	INDOOR COIL LAT - °F - DB	96.8	93.1
HEATING	HEATING INPUT - STAGE / MBH	(1) 125.0	(1) 125.0
	MIN AFUE %	80.0	80.0
	COMPRESSOR NO. / RLA (EA)	2 / 13.1	2 / 13.7
	OUTDOOR FAN MOTOR NO. / FLA (EA)	2 / 1.5	2 / 1.5
ELECTRICAL	INDOOR FAN MOTOR FLA	6.4	6.4
ELECT	COMBUSTION FAN MOTOR NO. / FLA (EA)	1 / 0.48	1 / 0.48
	MCA / MOP	39 / 50	41 / 50
	VOLTAGE / PHASE	208 / 3	208 / 3
TILTER TYPE		2" - MERV-13	2" – MERV-13
CONDENSER C	OIL HAIL GUARD (LOUVERED)	REQUIRED	REQUIRED
LUE DEFLECT	 OR	REQUIRED	REQUIRED
CONOMIZER N	MANUFACTURER / MODEL NO.	MICROMETL ECH-SRT34CB-D0DB-4	MICROMETL ECH-SRT34CB-D0DB
POWER EXHAU	ST MANUFACTURER / MODEL NO.	N/A	N/A
CURB MANUFA	CTURER / MODEL NO.	N/A	N/A
SHIM CURB M	ANUFACTURER / MODEL NO.	N/A	N/A
operating we	IGHT (LBS)	856	928
DIMENSIONS (I		88.1" × 59.5" × 41.3"	
DETAIL REFERE	ENCE	1,4/MO-2.1	1,4/M0-2.1
REMARKS		1,2,3,4,5,6,7	1,2,3,4,5,6,7

- UNIT COMPLETE WITH MODULATING ECONOMIZER WITH 100% OUTSIDE AIR INTAKE, CONVENIENCE OUTLET, LOUVERED HAIL GUARD, FLUE DEFLECTOR. 2- OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT, ACCESSORIES, AND ECONOMIZER.
- 3- 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.
- 4- VARIABLE SPEED INDOOR FAN. 5- PROVIDE LOW SOUND OUTDOOR FAN.
- 6- PROVIDE FACTORY MOUNTED AND TESTED BIPOLAR IONIZATION SYSTEM PER UNIT SPECIFICATION REQUIREMENTS.
- MANUFACTURER SHALL PROVIDE A TRANSFORMER PACKAGE TO INTERNALLY POWER THE BIPOLAR IONIZATION. 7- INTERLOCK EXISTING ROOM EXHAUST FAN WITH NEW UNIT OPERATION.

EXISTING AIR CONDITIONER AND NEW AIR CONDITIONER CO	MPARISON S	SCHEDULE (CLASSROO	MS 1 & 2)
UNIT SYMBOL	AC-	-C1	AC-	-C2
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER
CONDITION	EXISTING	NEW	EXISTING	NEW
MODEL	48HJD008	48FCDM08	48HJD009	48FCDM09
DIMENSIONS (LxWxH) - IN	87.4 x 57.75 x 41.3	88.1 x 59.5 x 41.3	87.4 x 57.75 x 49.4	88.1 x 59.5 x 49.
UNIT WEIGHT — LBS	870	745	1015	817
CURB WEIGHT — LBS	N/A	N/A	N/A	N/A
SHIM CURB WEIGHT — LBS	N/A	N/A	N/A	N/A
ECONOMIZER WEIGHT — LBS	145	111	145	111
POWER EXHAUST WEIGHT — LBS	N/A	N/A	N/A	N/A
TOTAL WEIGHT — LBS	1015	856	1160	928

UNIT SYMBOL		AC-M1	AC-M2	AC-M3
LOCATION		ROOF	ROOF	ROOF
SERVICE		OFFICES	MULTI-PURPOSE ROOM	MULTI-PURPOSE ROOM
SHEET REFERE		M2-1.1	M2-1.1	M2-1.1
MANUFACTURER	 R	CARRIER	CARRIER	CARRIER
MODEL		48VLUE60	48VLUE60	48VLUE60
TYPE		GAS/ELEC	GAS/ELEC	GAS/ELEC
DISCHARGE		DOWN	DOWN	DOWN
~	INDOOR FAN - CFM	1700	1700	1700
Y FAN	MIN. OUTSIDE AIR — CFM	450	450	450
SUPPLY	EXTERNAL S.P "WG	0.80	0.80	0.80
<i>U</i>)	BLOWER BHP / RPM / SPEED TAB	0.85 / 1040 / HIGH	0.85 / 1040 / HIGH	0.85 / 1040 / F
	EVAP. EAT — °F — DB	80.0	80.0	80.0
	EVAP. EAT — °F — WB	67.0	67.0	67.0
	EVAP. LAT - °F - DB	61.7	61.7	61.7
	EVAP. LAT - °F - WB	59.2	59.2	59.2
<u> </u>	CND. EAT — °F — DB	115.0	115.0	115.0
COOLING	COOLING CAPACITY - MBH	47.44	47.44	47.44
O	COOLING CAPACITY SENSIBLE — MBH	36.99	36.99	36.99
	REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 7.6	R410A / 7.6	R410A / 7.6
	ARI EER2 / SEER2	- / 14.00	- / 14.00	- / 14.00
	COMPRESSOR INPUT - KW	6.42	6.42	6.42
	INDOOR COIL EAT — °F — DB	65.0	65.0	65.0
HEATING	INDOOR COIL LAT - °F - DB	101.1	101.1	101.1
HEA.	HEATING INPUT - STAGE / MBH	(1) 89.0	(1) 89.0	(1) 89.0
	MIN AFUE %	81.0	81.0	81.0
	COMPRESSOR NO. / RLA (EA)	1 / 23.7	1 / 23.7	1 / 23.7
	OUTDOOR FAN MOTOR NO. / FLA (EA)	1 / 1.05	1 / 1.05	1 / 1.05
ELECTRICAL	INDOOR FAN MOTOR FLA	6.9	6.9	6.9
ELEC	COMBUSTION FAN MOTOR NO. / FLA (EA)	- / -	- / -	- / -
	MCA / MOP	37.6 / 60	37.6 / 60	37.6 / 60
	VOLTAGE / PHASE	208 / 1	208 / 1	208 / 1
FILTER TYPE		2" — MERV—13	2" - MERV-13	2" - MERV-13
CONDENSER C	COIL HAIL GUARD (LOUVERED)	REQUIRED	REQUIRED	REQUIRED
FLUE DEFLECTO	OR	REQUIRED	REQUIRED	REQUIRED
ECONOMIZER N	MANUFACTURER / MODEL NO.	MICROMETL ECC-SPPLGCB-D00B-0E	MICROMETL ECC-SPPLGCB-D00B-0	MICROMETL DECC-SPPLGCB-DOO
POWER EXHAU'	JST MANUFACTURER / MODEL NO.	N/A	N/A	N/A
CURB MANUFA	ACTURER / MODEL NO.	EXISTING	EXISTING	EXISTING
SHIM CURB /	MODEL NO.	MICROMETL ADPT-0571-SD-W	MICROMETL ADPT-0571-SD-W	MICROMETL ADPT-0571-SD-
OPERATING WEI	EIGHT (LBS)	561	561	561
DIMENSIONS (L		48.2" × 44.1" × 54.8"	48.2" x 44.1" x 54.8"	, 48.2" × 44.1" × 5
DETAIL REFERE		6/M0-2.2	6/M0-2.2	6/M0-2.2
		1,2,3,4,5	1,2,3,4,5	1,2,3,4,5

- 2- OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT, ACCESSORIES AND ECONOMIZER. 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 CONDITION	ER COMPARISON	SCHEDU	ILE (MUL	TI-PURP	OSE BUI	LDING)
UNIT SYMBOL	AC-	-M1	AC-	-M2	AC-	-м3
MANUFACTURER	ICP	CARRIER	DAY & NIGHT	CARRIER	ICP	CARRIER
CONDITION	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW
MODEL	PGD360	48VLUE60	PGD360	48VLUE60	PGD460	48VLUE60
DIMENSIONS (LxWxH) - IN	48.2 x 44.2 x 42	48.2 x 44.1 x 54.8	48.2 x 44.2 x 42	48.2 x 44.1 x 54.8	48.2 x 44.2 x 42	48.2 x 44.1 x 54
UNIT WEIGHT — LBS	441	455	441	455	441	455
CURB WEIGHT - LBS	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
SHIM CURB WEIGHT — LBS	N/A	17	N/A	17	N/A	17
ECONOMIZER WEIGHT — LBS	N/A	89	N/A	89	N/A	89
POWER EXHAUST WEIGHT — LBS	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL WEIGHT — LBS	441	561	441	561	441	561
		•	•			•



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Fax (714) 884-3834 PEI #600.030 SIXTH STREET PREP

STREAM

Telephone (714) 884-3834

ELEMENTARY

15476 6TH ST

VICTORVILLE, CA 92395

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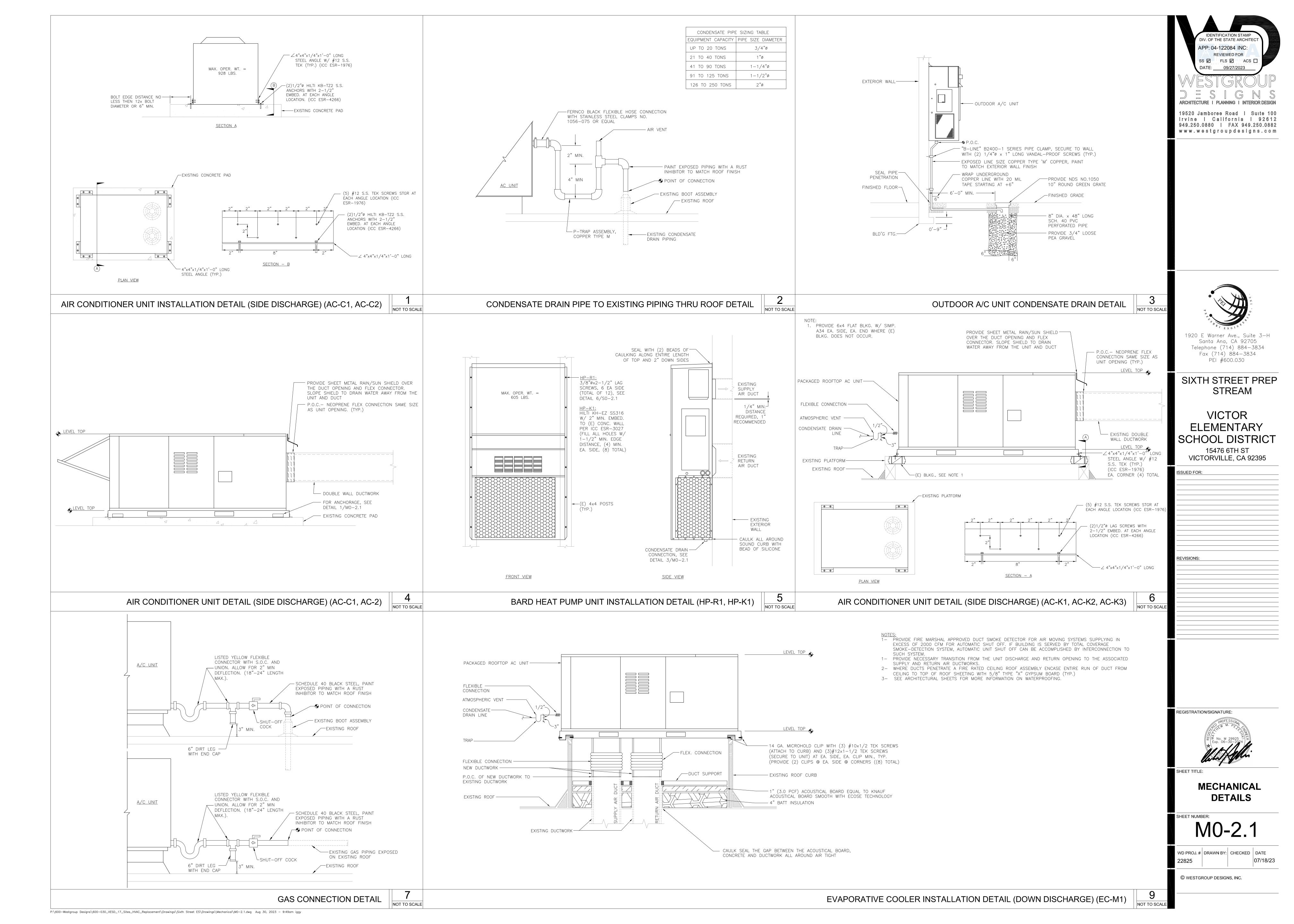


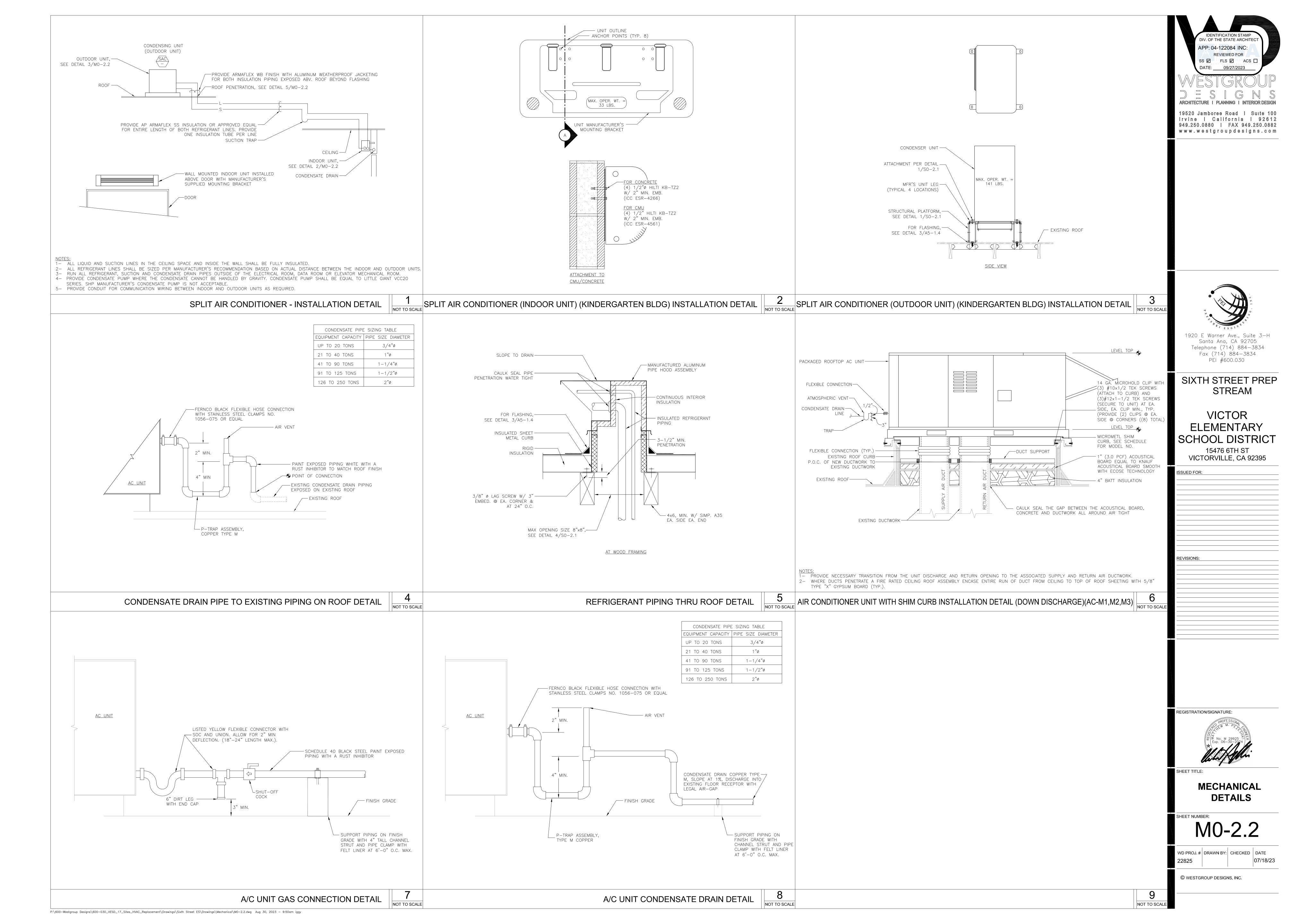
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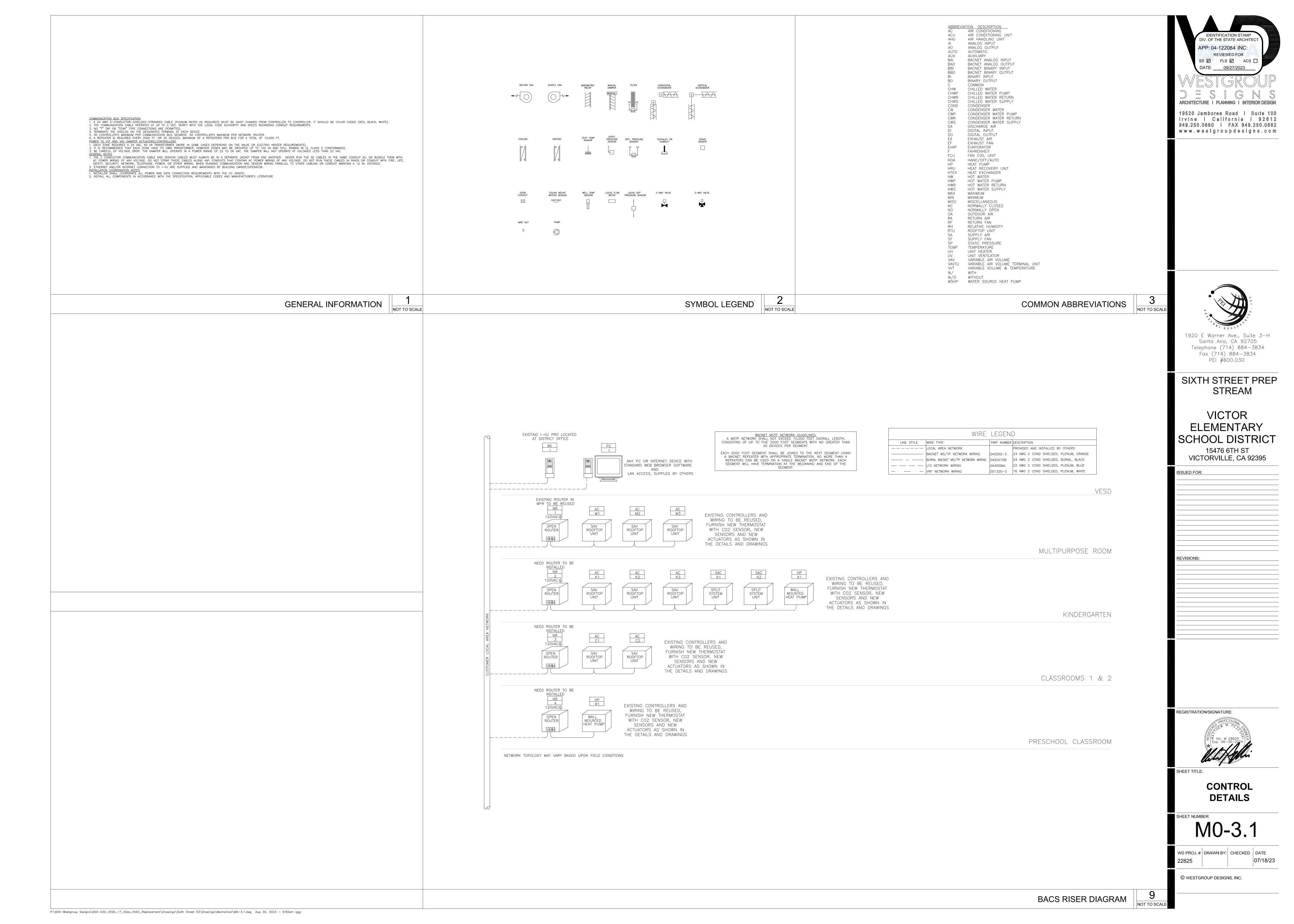
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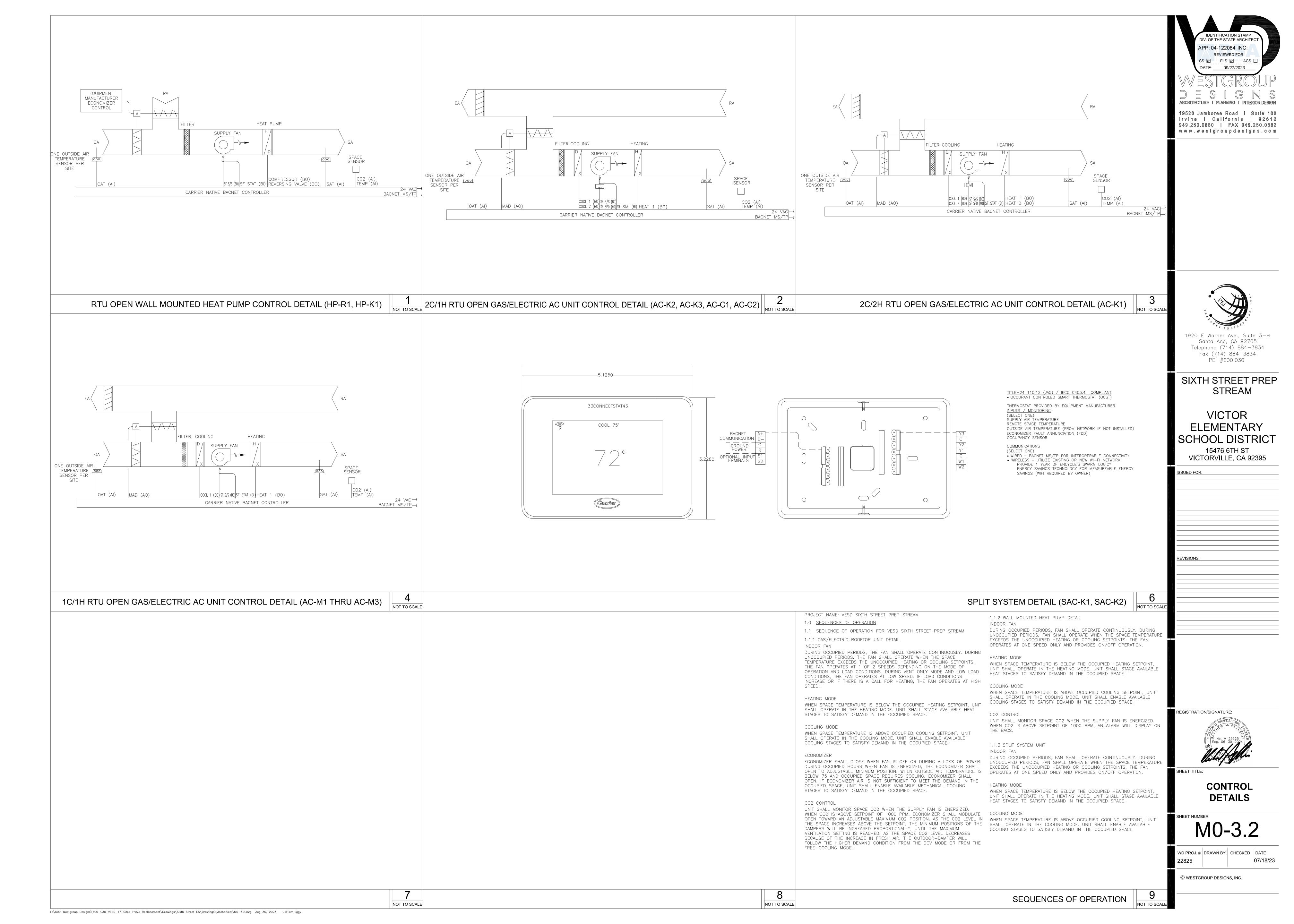
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Project Name: Sixth St - Classroom Bldg-C Project Address:	Report Page: Date Prepared:	(Page 1 of 7) 2023-05-05T19:05:24-04:00	C. COMPLIANCE RESULTS
A. GENERAL INFORMATION D1 Project Location (city) D2 Climate Zone	Victorville 04 Total Conditioned Flo	-AV-MAKA	Table C will indicate if the project data input into the compliance NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to
3 Occupancy Types Within Project: School or Classroom	06 # of Stories (Habitabl	PARENT PA	01 02 03 System Summary Pumps AND Economizers AND
			110.1, AND 140.4(k), 110.2, 140.4(c), 170.2(c)41 170.2(c)41 170.2(c)
PROJECT SCOPE is table Includes mechanical systems or components that of 10.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.	are within the scope of the permit application and are demor	nstrating compliance using the prescriptive path outlined in	(See Table F) (See Table G) (See Table H) (See Table H)
01 Air System(s)	02 Wet System Components	03 Dry System Components	Yes AND AND AND Mandatory Measure
 ☒ Heating Air System ☒ Cooling Air System Mechanical Controls 	☐ Water Economizer ☐ Pumps ☐ System Piping	☐ Air Economizer ☐ Electric Resistance Heat ☐ Fan Systems	D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of sel
Mechanical Controls (existing to remain, altered or new)		Ductwork (existing to remain, altered or new)	
	Chillers Boilers	☐ Ventilation ☐ Zonal Systems/ Terminal Boxes	E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the A
			F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Space Conditioning System Information
			01 02 System Name Quantity
			AC-C1 1 1 AC-C2 1
Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Con		Documentation Software: Energy Code Ace Compliance ID: 106091-0523-0002	Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Complia
TATE OF CALIFORNIA	Schema Version: rev 20220101	Report Generated: 2023-05-05 16:05:28	STATE OF CALIFORNIA
Mechanical Systems EXECUTION OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	
roject Name: Sixth St - Classroom Bldg-C	Report Page: Date Prepared:	(Page 5 of 7) 2023-05-05T19:05:24-04:00	Project Name: Sixth St - Classroom Bldg-C
			Q. MANDATORY MEASURES DOCUMENTATION LOCATION
his section does not apply to this project.			This table is used to indicate where mandatory measures are doc
1. COOLING TOWERS			Compliance with Mandatory Measures documented through MC Mandatory Measures Note Block
his section does not apply to this project.			Mandatory Heating Equipment Efficiency per 110.1
DECLARATION OF REQUIRED CERTIFICATES OF INST	in previous tables of this document. If any selection needs to b	be changed, please explain why in Table E Additional Remarks.	Cooling Equipment Efficiency per 110.1 Furnace Standby Loss Control per 110.2(d)
hese documents must be provided to the building inspector ttps://www.energy.ca.gov/title24/2019standards/2019_co	r during construction and can be found online at ompliance_documents/Nonresidential_Documents/NRCI/		Heat Pump with Supplemental electric Resistance Heater Contro
RCI-MCH-01-E - Must be submitted for all buildings	Form/Title		
D. DECLARATION OF REQUIRED CERTIFICATES OF ACC	Anna Transport Anna (Anna Anna Anna Anna Anna Anna Ann		
elections have been made based on information provided in these documents must be provided to the building inspector ttps://www.energy.ca.gov/title24/2019standards/2019_co	r during construction and can be found online at	be changed, please explain why in Table E Additional Remarks.	
	Form/Title	Systems/Spaces To Be Field Verified	
NRCA-MCH-18-A Energy Management Control Systems		T-AC-C1, C2	
P. DECLARATION OF REQUIRED CERTIFICATES OF VERIING There are no NRCV forms required for this project.	FICATION		
	mpliance Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 106091-0523-0002 Report Generated: 2023-05-05 16:05:28 CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA
Mechanical Systems ERTIFICATE OF COMPLIANCE this document is used to demonstrate compliance for mechanist outlined in 140.4, or 141.0(b)2 for alterations. Troject Name: Sixth St - Kindergarten	Schema Version: rev 20220101	Report Generated: 2023-05-05 16:05:28	CA Building Energy Efficiency Standards - 2022 Nonresidential Complia STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE Project Name: Sixth St - Kindergarten
Mechanical Systems ERTIFICATE OF COMPLIANCE this document is used to demonstrate compliance for mechanist authoritined in 140.4, or 141.0(b)2 for alterations. Troject Name: Sixth St - Kindergarten Troject Address: A. GENERAL INFORMATION	Schema Version: rev 20220101 anical systems that are within the scope of the permit applicate Report Page: Date Prepared:	CALIFORNIA ENERGY COMMISSION NRCC-MCH-E ation and are demonstrating compliance using the prescriptive (Page 1 of 8) 2023-05-05T18:52:34-04:00	CA Building Energy Efficiency Standards - 2022 Nonresidential Complian STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE Project Name: Sixth St - Kindergarten C. COMPLIANCE RESULTS
path outlined in 140.4, or 141.0(b)2 for alterations.	Schema Version: rev 20220101 anical systems that are within the scope of the permit applicate Report Page:	CALIFORNIA ENERGY COMMISSION NRCC-MCH-E ation and are demonstrating compliance using the prescriptive (Page 1 of 8) 2023-05-05T18:52:34-04:00 DOT Area 4870 Floor Area 580	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliant STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE Project Name: Sixth St - Kindergarten C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to 101 02 03
Mechanical Systems ERTIFICATE OF COMPLIANCE this document is used to demonstrate compliance for mechanist outlined in 140.4, or 141.0(b)2 for alterations. roject Name: Sixth St - Kindergarten roject Address: A. GENERAL INFORMATION D1 Project Location (city) D2 Climate Zone D3 Occupancy Types Within Project:	Schema Version: rev 20220101 anical systems that are within the scope of the permit applicated applicated and systems that are within the scope of the permit applicated applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems that are within the scope of the permit applicated anical systems th	CALIFORNIA ENERGY COMMISSION NRCC-MCH-E ation and are demonstrating compliance using the prescriptive (Page 1 of 8) 2023-05-05T18:52:34-04:00 DOT Area 4870 Floor Area 580	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE Project Name: Sixth St - Kindergarten C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to 1
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Alechanical Systems ERTIFICATE OF COMPLIANCE this document is used to demonstrate compliance for mechanist authoritined in 140.4, or 141.0(b)2 for alterations. Troject Name: Sixth St - Kindergarten Troject Address: A. GENERAL INFORMATION D1 Project Location (city) D2 Climate Zone D3 Occupancy Types Within Project: D School or Classroom D4. PROJECT SCOPE This table Includes mechanical systems or components that of the stable Includes mechanical sy	Schema Version: rev 20220101 anical systems that are within the scope of the permit application and are demonstrated within t	CALIFORNIA ENERGY COMMISSION NRCC-MCH-E ation and are demonstrating compliance using the prescriptive (Page 1 of 8) 2023-05-05T18:52:34-04:00 Dor Area 4870 Floor Area 580 de Above Grade) 1 Dry System Components Air Economizer	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Mechanical Systems CERTIFICATE OF COMPLIANCE Project Name: Sixth St - Kindergarten C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to 1
Alechanical Systems ERTIFICATE OF COMPLIANCE this document is used to demonstrate compliance for mechanist outlined in 140.4, or 141.0(b)2 for alterations. Troject Name: Sixth St - Kindergarten Troject Address: A. GENERAL INFORMATION 101 Project Location (city) 102 Climate Zone 103 Occupancy Types Within Project: 10 School or Classroom 11 PROJECT SCOPE This table Includes mechanical systems or components that of 40.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations. 11 Olimate Zone 12 Air System(s) 13 Mechanical Controls Mechanical Controls	Schema Version: rev 20220101 anical systems that are within the scope of the permit application and are demonstrated by the system Components Wet System Components Water Economizer Pumps System Piping A scope of the permit application and are demonstrated by the state of the permit application and are demonstrated by the system Components System Piping System Piping	CALIFORNIA ENERGY COMMISSION NRCC-MCH-E Intion and are demonstrating compliance using the prescriptive (Page 1 of 8) 2023-05-05T18:52:34-04:00 DOOR Area 4870 Floor Area 580 de Above Grade) 1 Dry System Components Air Economizer Electric Resistance Heat Fan Systems	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Mechanical Systems CERTIFICATE OF COMPLIANCE Project Name: Sixth St - Kindergarten C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to 1
Alechanical Systems ERTIFICATE OF COMPLIANCE this document is used to demonstrate compliance for mechal atth outlined in 140.4, or 141.0(b)2 for alterations. Troject Name: Sixth St - Kindergarten Troject Address: A. GENERAL INFORMATION D1 Project Location (city) D2 Climate Zone D3 Occupancy Types Within Project: D School or Classroom A. PROJECT SCOPE this table Includes mechanical systems or components that of 40.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations. D1 Air System(s) M Heating Air System Cooling Air System	Schema Version: rev 20220101 anical systems that are within the scope of the permit application and are demoral systems that are within the scope of the permit application and are demoral system Components Q2	CALIFORNIA ENERGY COMMISSION NRCC-MCH-E Intion and are demonstrating compliance using the prescriptive (Page 1 of 8) 2023-05-05T18:52:34-04:00 Proor Area 4870 Floor Area 580 de Above Grade) 1 Dry System Components Air Economizer Blectric Resistance Heat Fan Systems Ductwork (existing to remain, altered or new) Ventilation	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Mechanical Systems CERTIFICATE OF COMPLIANCE Project Name: Sixth St - Kindergarten C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to 1
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Compliance ID: 106083-0523-0002

Registration Number:

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me or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Ty	pe per Tables 1 Title 20	110.2 and	Available ¹ 140.4(a) and			Supp. Sensi	ole .	Total Total Sensible	This section does not appl I. SYSTEM CONTROLS	y to this project							
	1.0.2(0)5011				170.2(c)1	Per Design (kBtu/h)	(kBtu/h)	Output kBtu/h) Per De	(kBtu/n)	Load Cooling Load	This table is used to demo				.2 and 120.2 and p	orescriptive cont	rols in 140.4(f) and ((n), 170.2(c)4D	170.2(c)4L or requiremen
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	uipment shall be the smallest	size, within the			esired equipment	line, neces	ssary to meet t	he design heatin	g and cooling loa	ds of the building per		Zoning	(ft ²)	160.3(a)2A or 141.0 180.2(b)2	(b)2E & 120.2(e 160.3(a)	120 2(0) 8	160.3(a)	2B 1	40.4(f) & 140.4(n) & : 70.2(c)4D
common pra	.2(c)1. Healthcare facilities an actice to show rated output co heating only, leave cooling ou	apacity on the									T-AC-C1, C2	Single zone	<= 25,000 ft ²	EMCS	EMCS	NA: Single Zone	EMCS	N	A: Single Zone NA: No opera
thority Having	g Jurisdiction may ask for loa pment Efficiency (other than	d calculations	used for compli	iance per 140	0.4(b) and 170.2(c).			d Dual Fuel Heat	Pumps)	¹ FOOTNOTES: Gravity gas have setback thermostats		ravity floor heat	ers, gravity room he	aters, non-central	electric heaters,	fireplaces or decora	ative gas applia	inces, wood stoves are no
01	02		03	04	05 Heating Mode		06	07	08 Cooling Moo	09	J. VENTILATION AND IN	DOOR AIR O	JALITY						
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egistration Numb A Building Energy TE OF CALIFORNIA Bechanical S RTIFICATE OF CO Oject Name: S HVAC SYSTEM Y System Equip 01 AC-K1 AC-K2, AC-K3 HP-K1 SAC-K1, K2 DOTNOTES: Equip 0.4(a) and 170 is common practice of the common	Systems OMPLIANCE Sixth St - Kindergarten A SUMMARY (DRY & WET oment Sizing (includes air co	Equipment Ty AC, air coole central AC, air coole central Air-cool Room AC H size, within the re excepted. apacity on the size at put and load aid calculations of the size are also and calculations of the size are also are also and calculations of the size are also as a size are also and calculations of the size are also and calculations of the size are also as a size a	densers, heat 03 Title 20 d, single pkg + furnace, gas-fi d, single pkg + furnace, gas-fi oled, pkg (1pha- leat Pump, no le equipment sche blank. If equipm used for compli appliance ON documented in 01 MCH	pumps, VRF, 110.2 and warm-air red warm-air red se) louvers ons of the de edule. Sensibnent is coolin iance per 140	Phone: Phone: Phone: Propertion: 2022. Report Page: Date Prepare Page: Date Prepare Page: Available¹ 140.4(a) and 170.2(c)1 Yes Yes Yes Yes Yes Yes Yes Page: Pa	D.000 0220101 det: hit heaters 05 He Per Design (kBtu/h) 179.2 100 43 line, necess tring output c).	Equipment 14 Pating Output ² Rated (kBtu/h) (179.2 100 43 Passary to meet to the specification and load black to the specification	tems) 07 08 Sizing per Mech 10.4(a&b), 170.2 3 Cool Supp. Heating Output kBtu/h) 0 102 0 59.3 0 36 24 the design heating in sheet tables. ink.	CALIFORNIA E 202 09 anical Schedule (c)1 & 170.2(c)2 ing Output ^{2,3} ole sign (kBtu/h) 102 3 59.8 36 24 g and cooling load CALIFORNIA E 202 Construction doc 04 construction doc 04 construction doc 04 construction doc 04	NERGY COMMISSION NRCC-MCH-E (Page 3 of 8) -05-05T18:52:34-04:00 10 11	Mechanical System CERTIFICATE OF COMPLIANCE Project Name: Sixth St F. HVAC SYSTEM SUMM Dry System Equipment Eff 01 Name or Item Tag AC-K1 >=65k AC-K2, AC-K3 <65kl HP-K1 SAC-K1, K2 G. PUMPS This section does not appl H. FAN SYSTEMS & AIR This section does not appl Registration Number: CA Building Energy Efficience STATE OF CALIFORNIA Mechanical System CERTIFICATE OF COMPLIANCE Project Name: Sixth St Project Address: DOCUMENTATION AUT I certify that this Certify Documentation Author Name: MATTHEW PEZESHKI Company: Pezeshki Engineering Inc. Address: City/State/Zip:	ARY (DRY & Value of Composition of C	egory (h) 2225kBtuh heatin (000 0000 t. RS t. RATION STATEI	Rating Condition (°F) ng Compliance MENT entation is accurate	ners (PTAC) and P 04 Heatir Efficiency Unit AFUE AFUE HSPF Generated Report Vers Schema Vers Re Da e and complete. CE	Date/Time: cion: 2022.0.000 report Page: cumentation Author cnature Date:	Design Efficiency 0.8 0.8 8	Efficiency Unit EER IEER SEER SEER EER	d Dual Fuel Heat Pumps) 08 Cooling Mode Minimum Efficiency Required per Tables 110.2 / Title 20 11 12.7 14 14 8.7 Cocumentation Software: Energy (Compliance ID: 1060) Report Generated: 2023-09
egistration Numb A Building Energy TE OF CALIFORNIA echanical S RTIFICATE OF CO oject Name: S HVAC SYSTEM Y System Equip 01 AC-K1 C-K2, AC-K3 HP-K1 SAC-K1, K2 OTNOTES: Equip AC-K1 SAC-K1, K2 OTNOTES: Equip Color of CALIFORNIA equipment is h uthority Having RTIFICATE OF CO oject Name: S MANDATORY is table is used mpliance with indatory Measu acting Equipment oling Equipment oling Equipment	Systems MSUMMARY (DRY & WET Doment Sizing (includes air co 02 Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii Furnace + AC Unitary Heat Pumps Room AC/HP uipment shall be the smallest 2(c)1. Healthcare facilities and actice to show rated output contention of the content of the co	Equipment Ty AC, air coole central AC, air coole central Air-cool Room AC H size, within the re excepted. apacity on the size at put and load aid calculations of the size are also and calculations of the size are also are also and calculations of the size are also as a size are also and calculations of the size are also and calculations of the size are also as a size a	densers, heat 03 Title 20 d, single pkg + 1 furnace, gas-fii d, single pkg (1pha: leat Pump, no le e available option equipment sche blank. If equipm used for compli	pumps, VRF, 110.2 and warm-air red warm-air red se) louvers ons of the de edule. Sensibnent is coolin iance per 140	Phone: Phone: Phone: Propertion: 2022. Report Page: Date Prepare Page: Date Prepare Page: Available¹ 140.4(a) and 170.2(c)1 Yes Yes Yes Yes Yes Yes Yes Page: Pa	D.000 0220101 det: hit heaters 05 He Per Design (kBtu/h) 179.2 100 43 line, necess tring output c).	Equipment 14 Pating Output ² Rated (kBtu/h) (179.2 100 43 Passary to meet to the specification and load black to the specification	tems) 07 08 Sizing per Mech 10.4(a&b), 170.2(a) Supp. Heating Output kBtu/h) 0 102 0 59.3 0 36 24 the design heating in sheet tables. ink.	CALIFORNIA E 202 09 anical Schedule (c)1 & 170.2(c)2 ing Output ^{2,3} ole sign (kBtu/h) 102 3 59.8 36 24 g and cooling load coumentation Soft Compliance Report Generated CALIFORNIA E	NERGY COMMISSION NRCC-MCH-E (Page 3 of 8) -05-05T18:52:34-04:00 10 11	F. HVAC SYSTEM SUMM Dry System Equipment Ef 01 Name or Item Tag AC-K1 >=65k AC-K2, AC-K3 <65kl HP-K1 SAC-K1, K2 G. PUMPS This section does not appl H. FAN SYSTEMS & AIR This section does not appl CERTIFICATE OF COMPLIANC Project Name: Sixth St-Project Address: DOCUMENTATION AUT I certify that this Certify Documentation Author Name: MATTHEW PEZESHKI Company: Pezeshki Engineering Inc. Address:	Size Cate (Btu) Btuh cooling/ < Btuh cooling/ < 65,0 >=14,0 Y to this project ECONOMIZEF Y to this project Y to this project HOR'S DECLARATIO alty of perjury, und Cate of Comp	egory (h) 2225kBtuh heatin (000 0000 t. RATION STATEMENT (eliance docume)	Rating Condition (°F) Rating Condition (°F)	ners (PTAC) and P 04 Heatir Efficiency Unit AFUE AFUE HSPF Generated Report Vers Schema Vers Re Da e and complete. CE	Date/Time: cion: 2022.0.000 report Page: ackage Terminal 05 re	Design Efficiency 0.8 0.8 8	Efficiency Unit EER IEER SEER SEER EER	d Dual Fuel Heat Pumps) 08 Cooling Mode Minimum Efficiency Required per Tables 110.2 / Title 20 11 12.7 14 14 8.7 Cocumentation Software: Energy (Compliance ID: 1060) Report Generated: 2023-09

Generated Date/Time:

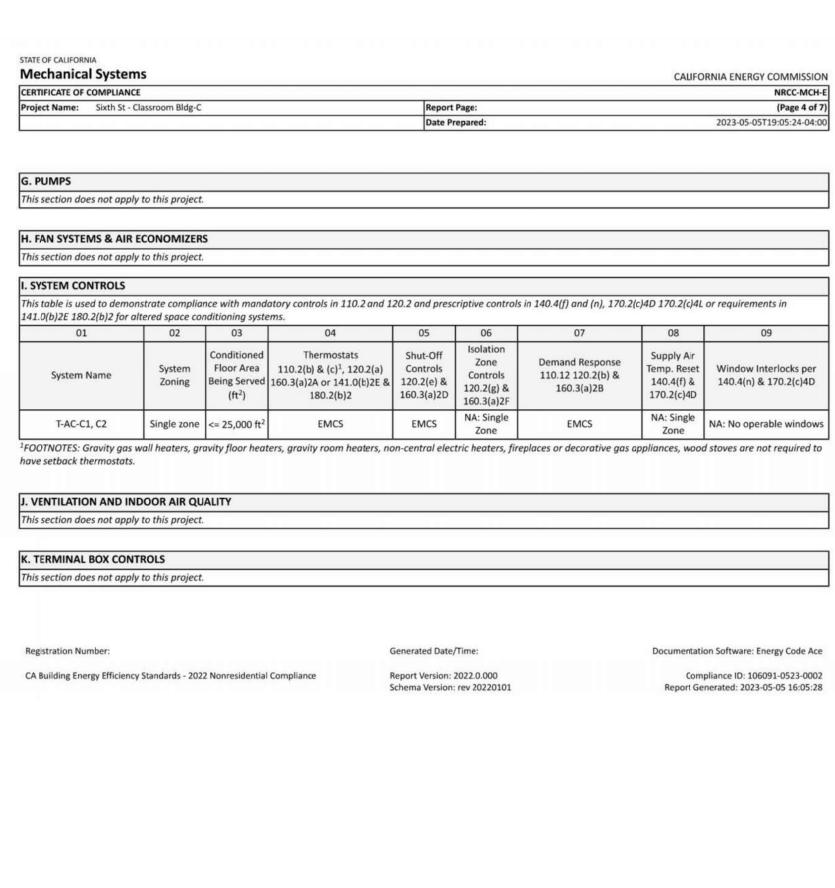
Report Version: 2022.0.000

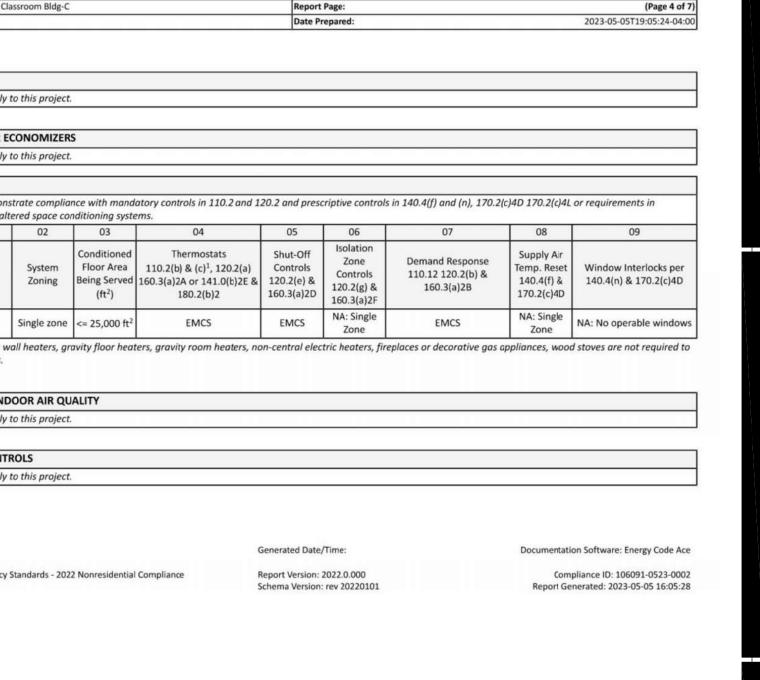
Schema Version: rev 20220101

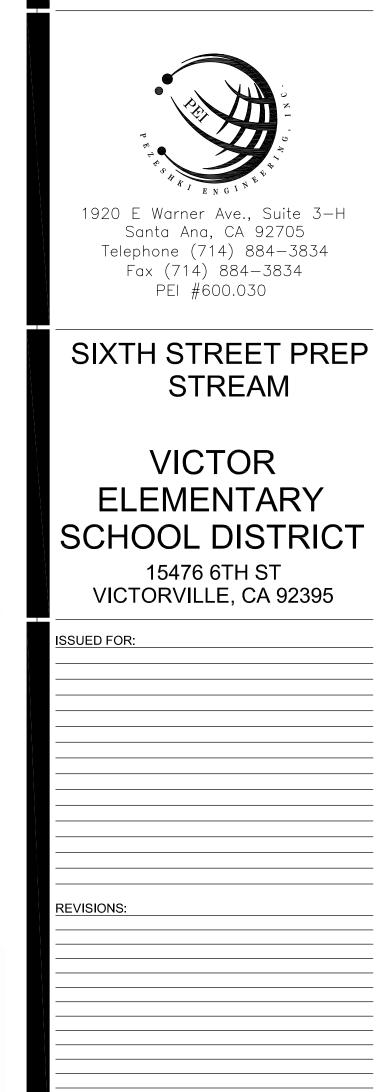
Documentation Software: Energy Code Ace

Report Generated: 2023-05-05 15:52:38

Compliance ID: 106083-0523-0002







CALIFORNIA ENERGY COMMISSION

Documentation Software: Energy Code Ace

Compliance ID: 106083-0523-0002

Report Generated: 2023-05-05 15:52:38

CALIFORNIA ENERGY COMMISSION

Documentation Software: Energy Code Ace

Compliance ID: 106083-0523-0002

Report Generated: 2023-05-05 15:52:38

2023-05-05T18:52:34-04:00

NRCC-MCH-E (Page 8 of 8)

Condition | Efficiency Unit | Required per | Design Efficiency | Efficiency Unit | Required per | Design Efficiency |

The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

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

esponsible Designer Signature:

of Title 24, Part 1 and Part 6 of the California Code of Regulations.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Registration Number:

2023-05-05T18:52:34-04:00

NRCC-MCH-E

(Page 4 of 8)

IDENTIFICATION STAMP

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗆

ARCHITECTURE I PLANNING I INTERIOR DESIGN

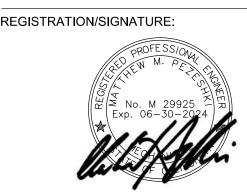
19520 Jamboree Road | Suite 100

Irvine I California I 92612

949.250.0880 | FAX 949.250.0882

www.westgroupdesigns.com

APP: 04-122084 INC:



TITLE 24

WD PROJ. # DRAWN BY: CHECKED DATE

© WESTGROUP DESIGNS, INC.

P:\600-Westgroup Designs\600-030_VESD_17_Sites_HVAC_Replacement\Drawings\Sixth Street ES\Drawings\Mechanical\M0-4.1.dwg Aug 30, 2023 - 9:51am iggy

STATE OF CALIFORNIA Mechanical Systems		CALIFORNIA ENERGY COMMISSION	Mechanical Systems	CALIFORNIA ENERGY COMMISSION	Mechanical Systems		CALIFORNIA ENERGY COMMISSION
path outlined in 140.4, or 141.0(b)2 for alterations.	nanical systems that are within the scope of the permit applica	1000 10	CERTIFICATE OF COMPLIANCE Project Name: Sixth St - MP Report Date Pr		Project Name: Sixth St - MP	Report Page: Date Prepared:	NRCC-MCF (Page 3 of 2023-05-05T18:08:46-04:
Project Name: Sixth St - MP Project Address:	Report Page: Date Prepared:	(Page 1 of 7) 2023-05-05T18:08:46-04:00			F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)		
A. GENERAL INFORMATION 01 Project Location (city)	Victorville 04 Total Conditioned Flo	or Area 4140	C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance document is compliant with mecha NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as		Dry System Equipment Sizing (includes air conditioners, cor 01 02	ndensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems) 03 04 05 06 07	
02 Climate Zone 03 Occupancy Types Within Project:	14 05 Total Unconditioned R 06 # of Stories (Habitable		01 02 03 04 05 System Fans/ System	06 07 08 09			g per Mechanical Schedule (kBtu/h) &b), 170.2(c)1 & 170.2(c)2 Cooling Output ^{2,3} Load Calculations ³
School or Classroom			110.1, 10.2, 10.2, 120.2, 140.4(k), 170.2(c), 140.4(c),	ND Terminal Box Controls AND 120.3, 140.4(l), 140.4(l), 110.2(e)2 Compliance Result:	Name or Item Tag Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii Equipment To	ype per Tables 110.2 and Available Supp	Sensible Rated Heating Sensible
	t are within the scope of the permit application and are demon	nstrating compliance using the prescriptive path outlined in	140.4, 170.2(c)	170.2(c)48 160.2, 160.3 (See Table K) (See Table M)		(kBtu/	tt (kBtu/h) (kBtu/h) Load (kBtu/h) Load (kBtu/h)
140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations. 01 Air System(s)	02 Wet System Components	03 Dry System Components	Yes AND AND Yes AND A Mandatory Measures Compliance (See Table Q for Deta	ND AND AND COMPLIES COMPLIES	AC-M3 Furnace + AC central	d, single pkg + warm-air I furnace, gas-fired Yes 71 71 0 e available options of the desired equipment line, necessary to meet the de	36.9 36.9 181.6 99.6 sign heating and cooling loads of the building p
 ☑ Heating Air System ☑ Cooling Air System 	☐ Water Economizer ☐ Pumps	☐ Air Economizer ☐ Electric Resistance Heat	D. EXCEPTIONAL CONDITIONS		140.4(a) and 170.2(c)1. Healthcare facilities are excepted. 2It is common practice to show rated output capacity on the	equipment schedule. Sensible cooling output comes from specification shee blank. If equipment is cooling only, leave heating output and load blank.	
Mechanical Controls Mechanical Controls (existing to remain, altered or new)	System Piping Cooling Towers	☐ Fan Systems ☐ Ductwork (existing to remain, altered or new)	This table is auto-filled with uneditable comments because of selections made or data entered in table.	oles throughout the form.	⁴ Authority Having Jurisdiction may ask for load calculations		(-DOAS and Dual Fuel Heat Pumps)
of hear)	Chillers Boilers	☐ Ventilation ☐ Zonal Systems/ Terminal Boxes	E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.		01 02	03 04 05 06 Heating Mode	07 08 09 Cooling Mode
			F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Space Conditioning System Information		Name or Item Size Category Tag (Btu/h)	Rating Efficiency Unit Required per Design Efficiency Eff	
			01 02 03 System Name Quantity System Serving	04 05 06 System Status Space Type Utilizing Recovered Heat	AC-M1, AC-M2, <65kBtuh cooling/ <225kBtuh heating	(°F) Tables 110.2 / Title 20 AFUE 0.8 0.8	Tables 110.2 / Title 20 EER 11 11
			AC-M1, AC-M2, AC-M3 3 Single zone	Alteration	AC-M3	AFGE 0.8 U.8	SEER 14 14
					G. PUMPS This section does not apply to this project.		
Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Co	Generated Date/Time: Proposition: 2022.0.000	Documentation Software: Energy Code Ace Compliance ID: 106074-0523-0002	Registration Number: Generated Date/ CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2		Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Con	Generated Date/Time: Report Version: 2022.0.000	Documentation Software: Energy Code Ar Compliance ID: 106074-0523-000
	Schema Version: rev 20220101	Report Generated: 2023-05-05 15:08:50	Schema Version:	rev 20220101 Report Generated: 2023-05-05 15:08:50		Schema Version: rev 20220101	Report Generated: 2023-05-05 15:08:5
Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	Mechanical Systems CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-MCH-	Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCI
Project Name: Sixth St - MP	Report Page: Date Prepared:	(Page 5 of 7) 2023-05-05T18:08:46-04:00	Project Name: Sixth St - MP Report Date Pro	Page: (Page 6 of 7	Project Name: Sixth St - MP Project Address:	Report Page: Date Prepared:	(Page 7 of 2023-05-05T18:08:46-04
			Q. MANDATORY MEASURES DOCUMENTATION LOCATION		DOCUMENTATION AUTHOR'S DECLARATION STATEME	NT	
M. COOLING TOWERS This section does not apply to this project.			This table is used to indicate where mandatory measures are documented in the plan set or construct 01	ction documentation.	I certify that this Certificate of Compliance documentation Author Name:	25-27	
I. DECLARATION OF REQUIRED CERTIFICATES OF INS	TALLATION		Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No Plan sheet or construction document location	MATTHEW PEZESHKI Company: Pezeshki Engineering Inc.	Signature Date:	
Selections have been made based on information provided These documents must be provided to the building inspecto https://www.energy.ca.gov/title24/2019standards/2019_c		ne changed, please explain why in Table E Additional Remarks.	03 Mandatory Measure Heating Equipment Efficiency per 110.1	Plan sheet or construction document location M0-1.2	Address: City/State/Zip:	CEA/ HERS Certification Identification (if applicable): Phone:	
	Form/Title		Cooling Equipment Efficiency per 110.1 Furnace Standby Loss Control per 110.2(d)	M0-1.2 NA	RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State 1. The information provided on this Certificate of Compliance is tr 2. I am eligible under Division 3 of the Business and Professions Compliance.		ate of Compliance (responsible designer)
NRCI-MCH-01-E - Must be submitted for all buildings	CEPTANCE		Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)	NA	 The energy features and performance specifications, materials, of Title 24, Part 1 and Part 6 of the California Code of Regulation The building design features or system design features identifie 	components, and manufactured devices for the building design or system design identified ons. d on this Certificate of Compliance are consistent with the information provided on other app	n this Certificate of Compliance conform to the requiremen
These documents must be provided to the building inspecto	in previous tables of this document. If any selection needs to b or during construction and can be found online at	be changed, please explain why in Table E Additional Remarks.				for approval with this building permit application. Compliance shall be made available with the building permit(s) issued for the building, and m Certificate of Compliance is required to be included with the documentation the builder provi Responsible Designer Signature:	
https://www.energy.ca.gov/title24/2019standards/2019_c		Systems/Spaces To Be Field Verified			Company: Address:	Date Signed: License:	
NRCA-MCH-18-A Energy Management Control Systems		T-M-1,2,3			City/State/Zip:	Phone:	
P. DECLARATION OF REQUIRED CERTIFICATES OF VER There are no NRCV forms required for this project.	RIFICATION						
Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Co	Generated Date/Time: mpliance Report Version: 2022.0.000	Documentation Software: Energy Code Ace Compliance ID: 106074-0523-0002	Registration Number: Generated Date/ CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2		Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Con	Generated Date/Time: Report Version: 2022.0.000	Documentation Software: Energy Code Ac Compliance ID: 106074-0523-000
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STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	Mechanical Systems CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-MCH-	Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH
This document is used to demonstrate compliance for mech path outlined in 140.4, or 141.0(b)2 for alterations.	nanical systems that are within the scope of the permit applica	tion and are demonstrating compliance using the prescriptive	Project Name: Sixth St - Preschool Report Date Pr	Page: (Page 2 of 7	Project Name: Sixth St - Preschool	Report Page: Date Prepared:	(Page 3 of 2023-05-05T19:13:26-04
Project Address: Sixth St - Preschool Project Address:	Report Page: Date Prepared:	(Page 1 of 7) 2023-05-05T19:13:26-04:00			F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)		
A. GENERAL INFORMATION 01 Project Location (city)	Victorville 04 Total Conditioned Flo	or Area 960	C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance document is compliant with mecha NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as		1	ndensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems) 03 04 05 06 07	
02 Climate Zone 03 Occupancy Types Within Project:	14 05 Total Unconditioned I 06 # of Stories (Habitable		01 02 03 04 05 System Fans/ System	06 07 08 09			per Mechanical Schedule (kBtu/h) &b), 170.2(c)1 & 170.2(c)2 Cooling Output ^{2,3} Load Calculations ³
Relocatable Public School			110.1, 10.2, 170.2(c)4 AND Pumps 140.4(k), 170.2(c)4 140.4(c), 140.4(c), 140.4(f) 140.4(f)	ND Terminal Box Controls AND 120.3, AND Cooling Towers 140.4(d), 140.4(l), 110.2(e)2 Compliance Result:	Name or Item Tag Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii Equipment To	ype per Tables 110.2 and	Sensible Total Sensible
	t are within the scope of the permit application and are demon	nstrating compliance using the prescriptive path outlined in	140.4, 170.2(c) 170.2(c) 170.2(c) 170.2(c) (See Table F) (See Table B) (See Table J) (See Table J)	170.2(c)48 160.2, 160.3 (See Table K) (See Table M)		170.2(c)1 Per Design (kBtu/h) Heatin (kBtu/h) Outpu (kBtu/	t Per Design (kBtu/h) Load Coolir
140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations. 01 Air System(s)	02 Wet System Components	03 Dry System Components	Yes AND AND Yes AND A Mandatory Measures Compliance (See Table Q for Deta	ND AND AND COMPLIES COMPLIES		oled, pkg (1phase) Yes 33 33 0 e available options of the desired equipment line, necessary to meet the de	33.79 33.79 29.4 30.4 sign heating and cooling loads of the building p
Heating Air System Cooling Air System	Water Economizer Pumps	Air Economizer Electric Resistance Heat	D. EXCEPTIONAL CONDITIONS		² It is common practice to show rated output capacity on the ³ If equipment is heating only, leave cooling output and load	equipment schedule. Sensible cooling output comes from specification shee blank. If equipment is cooling only, leave heating output and load blank.	t tables.
Mechanical Controls Mechanical Controls (existing to remain, altered or new)	System Piping Cooling Towers	☐ Fan Systems ☐ Ductwork (existing to remain, altered or new)	This table is auto-filled with uneditable comments because of selections made or data entered in table.	ples throughout the form.	⁴ Authority Having Jurisdiction may ask for load calculations Dry System Equipment Efficiency (other than Package Term 01 02	inal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), Di	(-DOAS and Dual Fuel Heat Pumps) 07 08 09
of new)	Chillers Boilers	☐ Ventilation ☐ Zonal Systems/ Terminal Boxes	E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.			Heating Mode Minimum	Cooling Mode Minimum
			F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Space Conditioning System Information		Name or Item Size Category Tag (Btu/h)	Rating Condition (°F) Efficiency Unit Required per Tables 110.2 /	Tables 110.2 /
			01 02 03 System Name Quantity System Serving	04 05 06 System Status Space Type Utilizing Recovered Heat	HP-R1 <65,000	Title 20 HSPF 8 8	Title 20 SEER 14 14
			HP-R1 1 Single zone	Alteration	G. PUMPS		
					This section does not apply to this project.		
Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Co	Generated Date/Time: Ompliance Report Version: 2022.0.000	Documentation Software: Energy Code Ace Compliance ID: 106094-0523-0002	Registration Number: Generated Date/ CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2		Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Con	Generated Date/Time: Report Version: 2022.0.000	Documentation Software: Energy Code Accompliance ID: 106094-0523-000
	Schema Version: rev 20220101	Report Generated: 2023-05-05 16:13:30	Schema Version:	마이지 하면 그 살아지면 그는 것이 되었다. 그는		Schema Version: rev 20220101	Report Generated: 2023-05-05 16:13:
STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	Mechanical Systems CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-MCH-	Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSI NRCC-MCI
Mechanical Systems		NRCC-MCH-E	Project Name: Sixth St - Preschool Report	Page: (Page 6 of 7	Project Address: Sixth St - Preschool Project Address:	Report Page: Date Prepared:	(Page 7 of
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Wechanical Systems CERTIFICATE OF COMPLIANCE Project Name: Sixth St - Preschool		NRCC-MCH-E (Page 5 of 7)	Q. MANDATORY MEASURES DOCUMENTATION LOCATION		DOCUMENTATION AUTHOR'S DECLARATION STATEME	NT	2023-05-05119:13:26-04
Mechanical Systems CERTIFICATE OF COMPLIANCE Project Name: Sixth St - Preschool M. COOLING TOWERS		NRCC-MCH-E (Page 5 of 7)		ction documentation.	I certify that this Certificate of Compliance documentation Author Name:		2023-05-05119:13:26-04
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Project Name: Sixth St -	MP			Report	Page:			(Page 4 of
				Date P	repared:			2023-05-05T18:08:46-04:0
H. FAN SYSTEMS & AIR	ECONOMIZER	S						
This section does not app	y to this project.							
I. SYSTEM CONTROLS								
This table is used to demo 141.0(b)2E 180.2(b)2 for a			atory controls in 110.2 and 12 ems.	20.2 and pres	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) ¹ , 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-M-1,2,3	Single zone	<= 25,000 ft ²	EMCS	EMCS	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable window
have setback thermostats J. VENTILATION AND IN			ers, gravity room heaters, no	n-central elec	and neaters, jire	proces or decorative gas (appliances, woo	a stoves are not required to
This section does not app	y to this project.							
K. TERMINAL BOX CON	TROLS							
This section does not app	y to this project.							
L. DISTRIBUTION (DUC	TWORK and PI	PING)						

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STATE OF CALIFORNIA **Mechanical Systems**

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance



Documentation Software: Energy Code Ace

Compliance ID: 106074-0523-0002 Report Generated: 2023-05-05 15:08:50

CALIFORNIA ENERGY COMMISSION

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(Page 4 of 7) 2023-05-05T19:13:26-04:00

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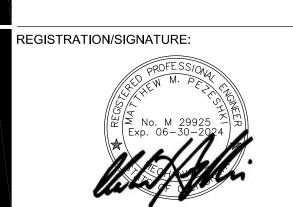
ELEMENTARY SCHOOL DISTRICT 15476 6TH ST VICTORVILLE, CA 92395

	ECONOMIZER	5//						
does not app	ly to this project.							
CONTROLS								
	onstrate complia altered space co		atory controls in 110.2 and 12 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
em Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c) ¹ , 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
-HP-R1	Single zone	<= 25,000 ft ²	EMCS	EMCS	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows
ck thermostats			ters, gravity room heaters, no	on-central elec	tric heaters, fire	places or decorative gas	appliances, wood	d stoves are not required to
does not app	ly to this project.							
NAL BOX CON	TROLS							
does not app	ly to this project.							
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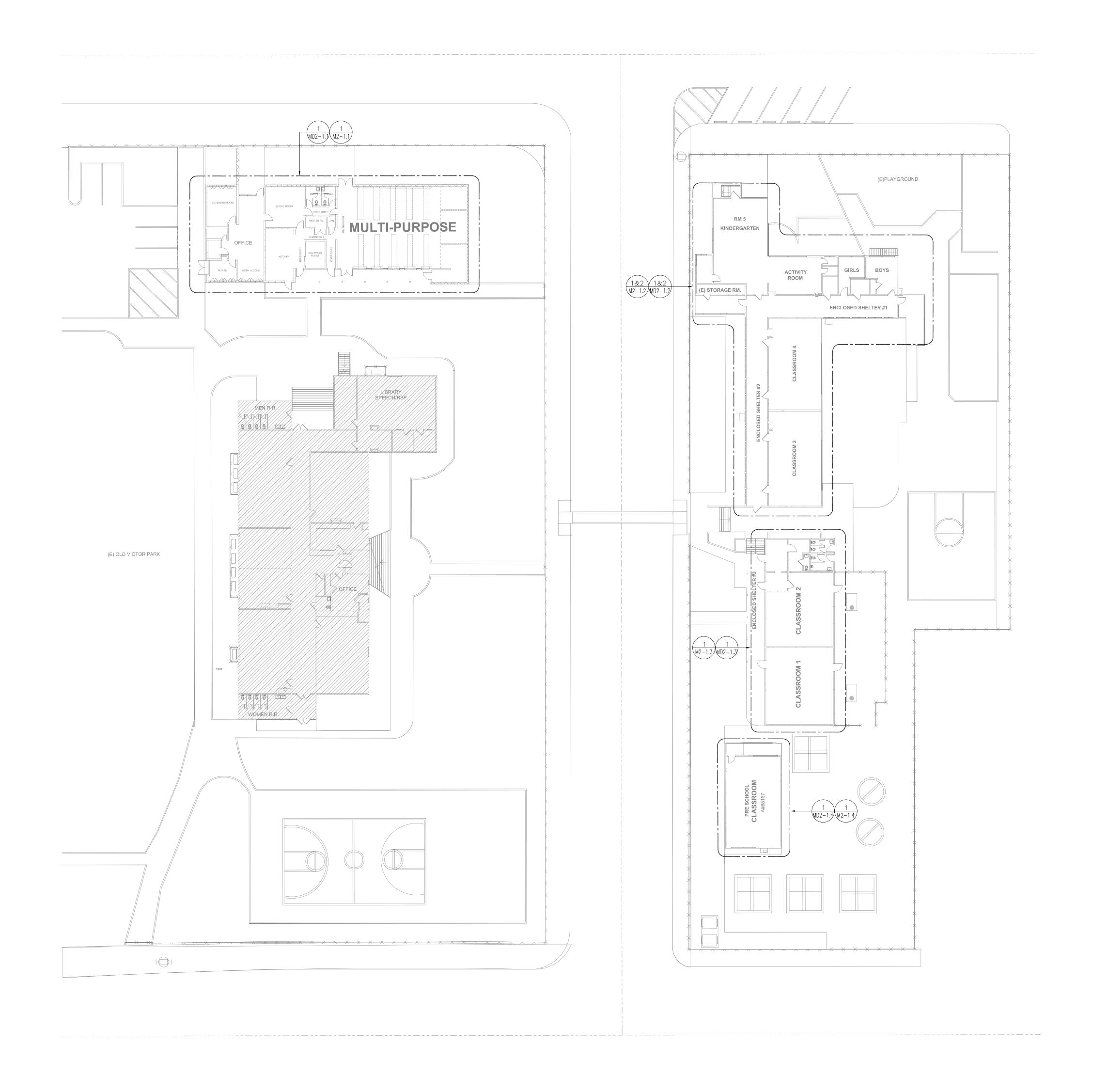
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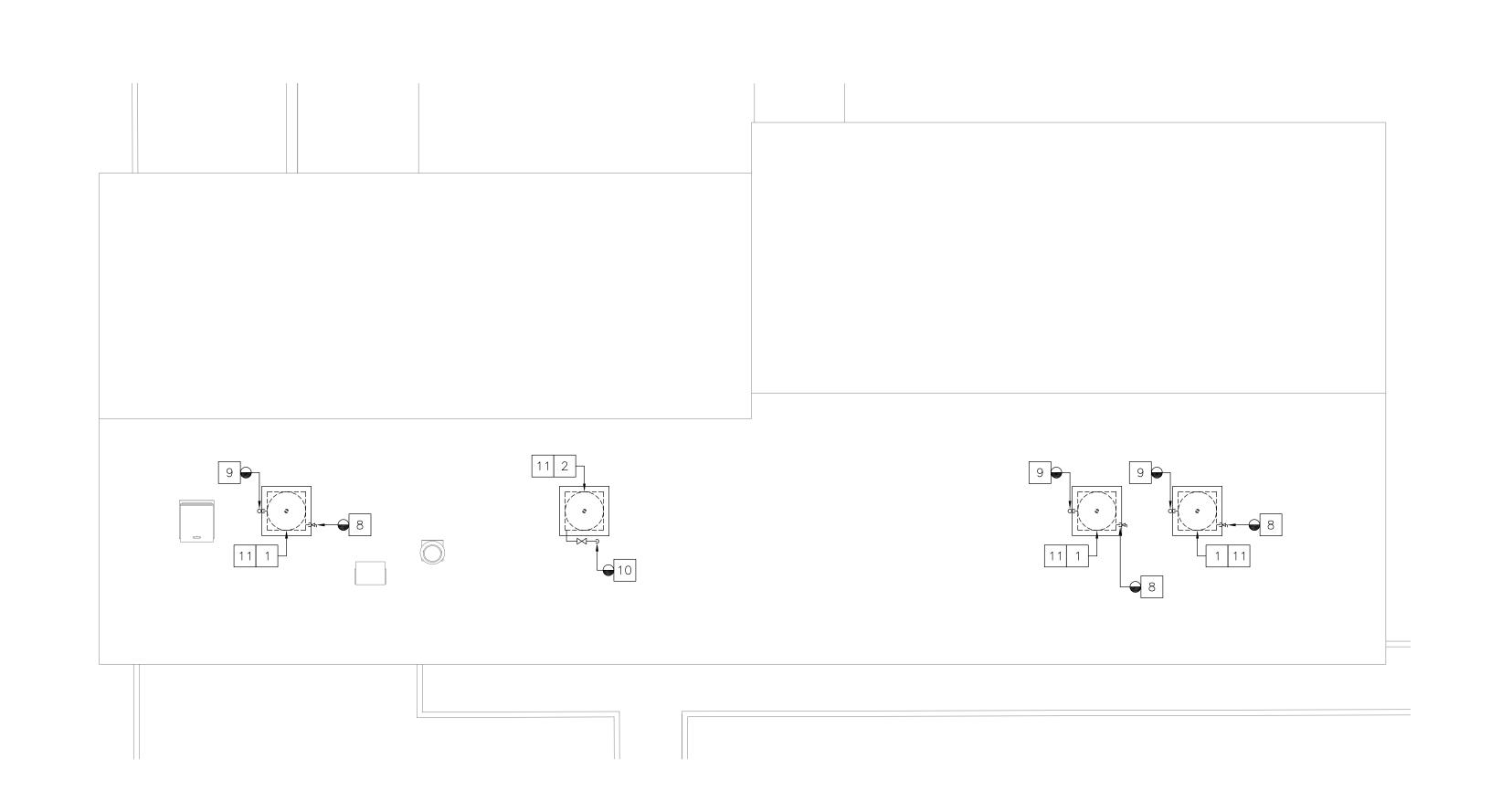
MECHANICAL SITE PLAN

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MECHANICAL DEMOLITION ROOF PLAN - MULTI-PURPOSE

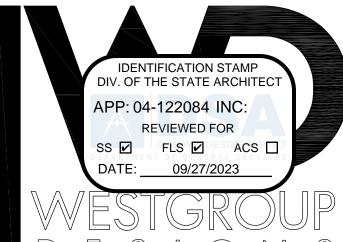
1/8" = 1'-0"

□ 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 NOTE 11 ON THIS SHEET AND RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- REMOVE EXISTING ROOFTOP EVAPORATIVE COOLER. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. MODIFY DRAIN PIPING ABV. ROOF LINE FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP EVAPORATIVE COOLER. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW EVAPORATIVE COOLER. SEE NOTE 11 ON THIS SHEET AND RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 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.- 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.- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR

- 6.- ALL EXISTING EXHAUST AIR CEILING DIFFUSERS TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 7.- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING DUCT MOUNTED DIFFUSERS TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 8.- 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).
- 9.- 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).
- 10.- P.O.R.- DISCONNECT 1/2" MAKE-UP COLD WATER PIPING FROM EVAPORATIVE COOLER AND REMOVE PIPING TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW EVAPORATIVE COOLER. (PROTECT EXISTING CW BOOT ASSEMBLY DURING CONSTRUCTION).
- 11.- PRIOR TO COMMENCEMENT OF DEMOLITION WORK REMOVE ALL EXISTING EMS UNIT CONTROLLERS FROM EXISTING A/C UNIT. PROTECT DURING CONSTRUCTION FOR RE-INSTALLATION ON NEW A/C UNIT. COORDINATE WITH EMS CONTRACTOR FOR REMOVAL AND RE-INSTALLATION WORK. SEE RENOVATION AND CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.



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SIXTH STREET PREP STREAM

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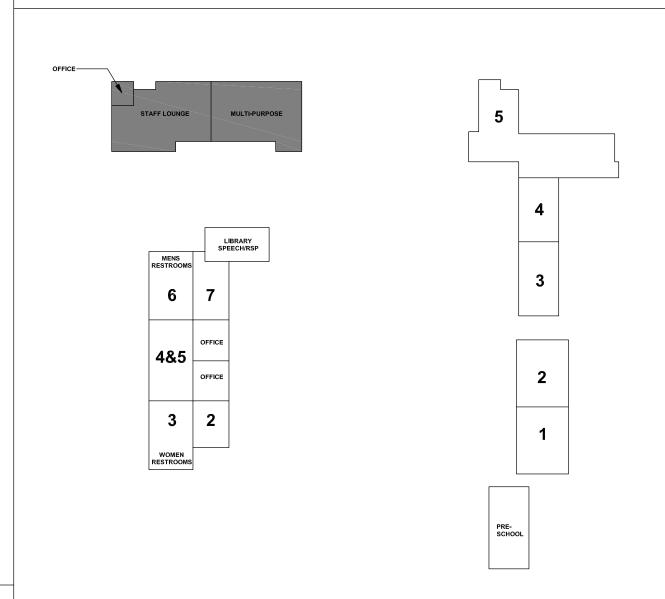
AIR BALANCE NOTE

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.

KEY PLAN

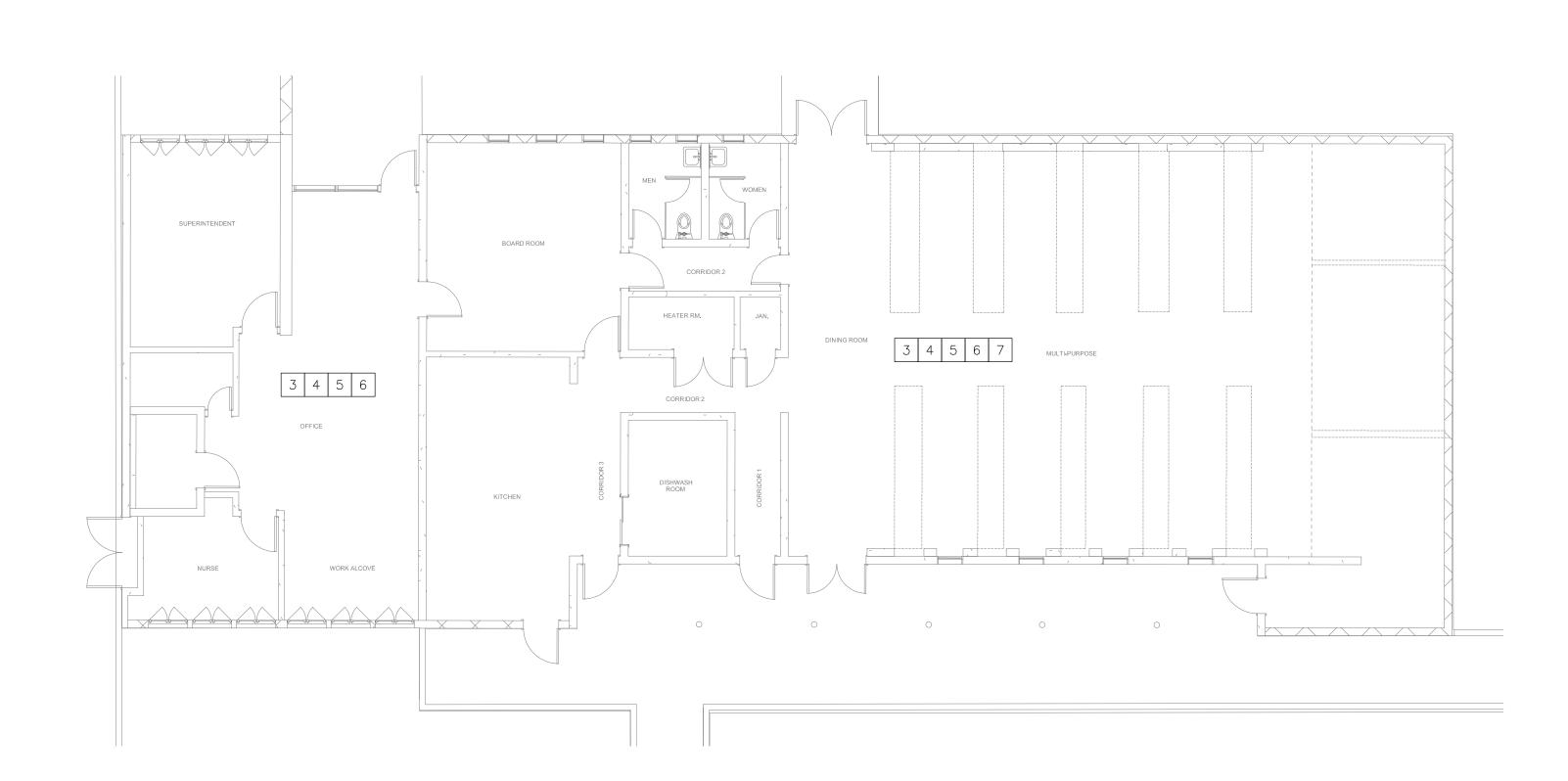




MECHANICAL DEMOLITION PLANS -MULTI-PURPOSE

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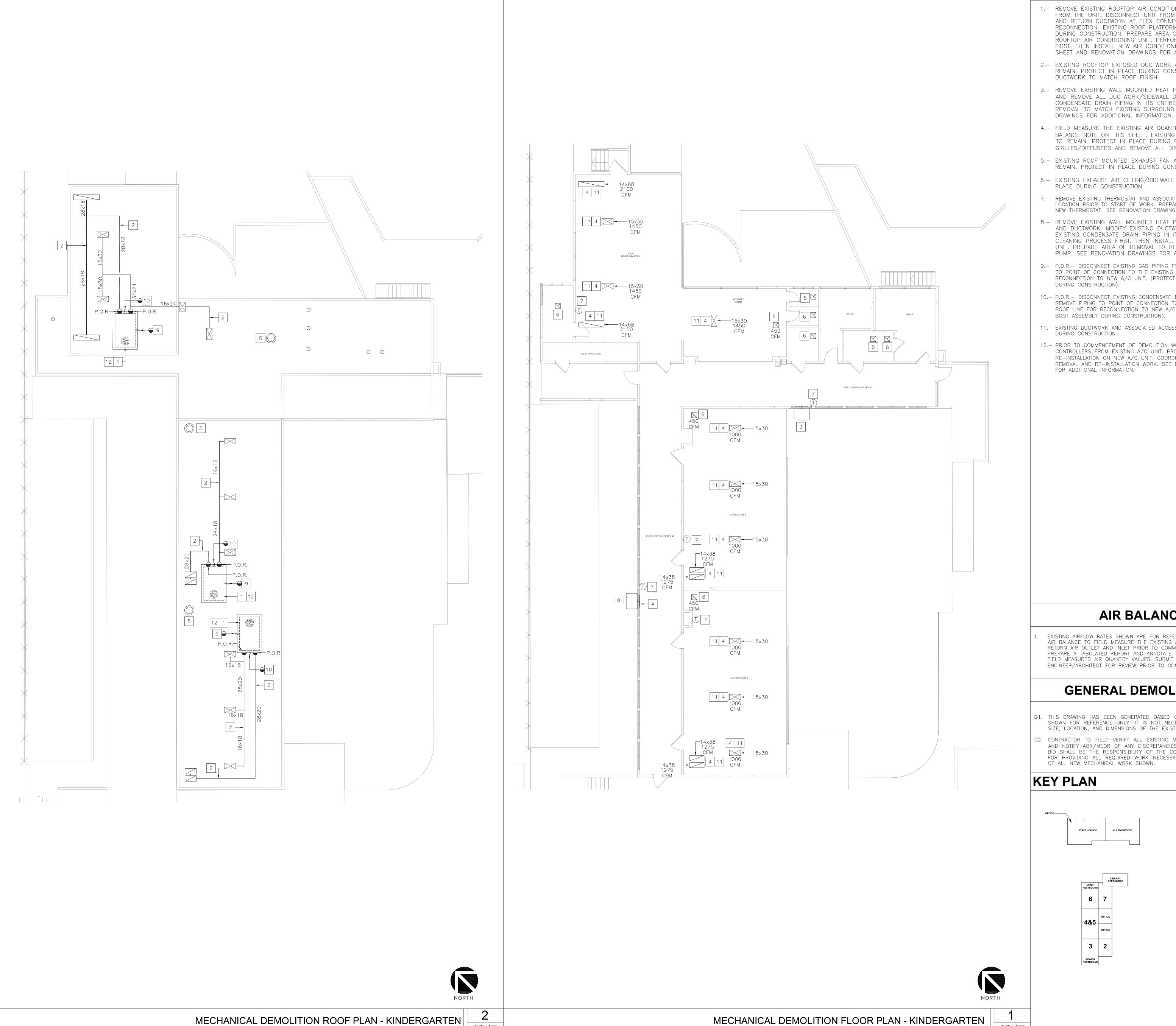
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MECHANICAL DEMOLITION FLOOR PLAN - MULTI-PURPOSE



□ 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 PLATFORM 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 NOTE 12 ON THIS SHEET AND 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.- REMOVE EXISTING WALL MOUNTED HEAT PUMP UNIT. DISCONNECT ALL UTILITIES AND REMOVE ALL DUCTWORK/SIDEWALL DIFFUSERS. REMOVE EXISTING CONDENSATE DRAIN PIPING IN ITS ENTIRETY. REPAIR AND PATCH AREA OF REMOVAL TO MATCH EXISTING SURROUNDING AREA. SEE ARCHITECTURAL
- 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 ROOF MOUNTED EXHAUST FAN AND ASSOCIATED DUCTWORK TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 6.- EXISTING EXHAUST AIR CEILING/SIDEWALL DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 7.- REMOVE EXISTING THERMOSTAT AND ASSOCIATED ACCESSORIES. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 8.- 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 RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 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.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 12.- PRIOR TO COMMENCEMENT OF DEMOLITION WORK REMOVE ALL EXISTING EMS UNIT CONTROLLERS FROM EXISTING A/C UNIT. PROTECT DURING CONSTRUCTION FOR RE-INSTALLATION ON NEW A/C UNIT. COORDINATE WITH EMS CONTRACTOR FOR REMOVAL AND RE-INSTALLATION WORK. SEE RENOVATION AND CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.



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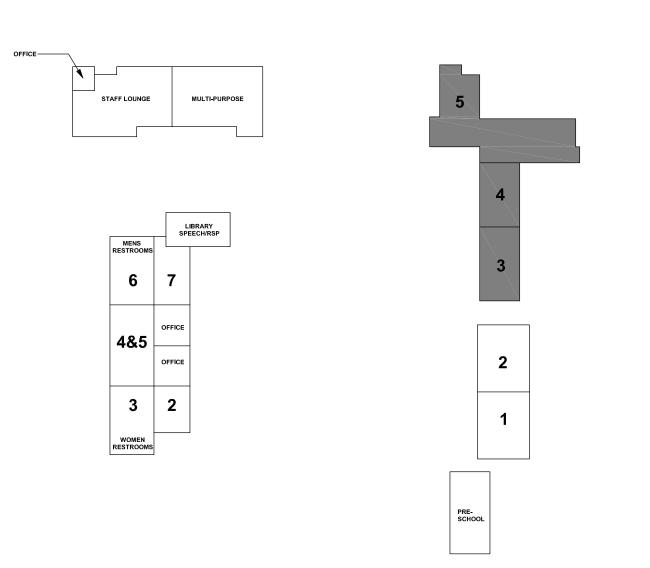
AIR BALANCE NOTE

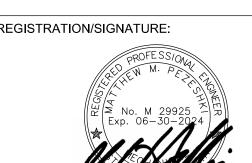
AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE FIELD MEASURED AIR QUANTITY VALUES. SUBMIT DRAWINGS AND REPORT TO ENGINEER/ARCHITECT 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.
- 32. 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.

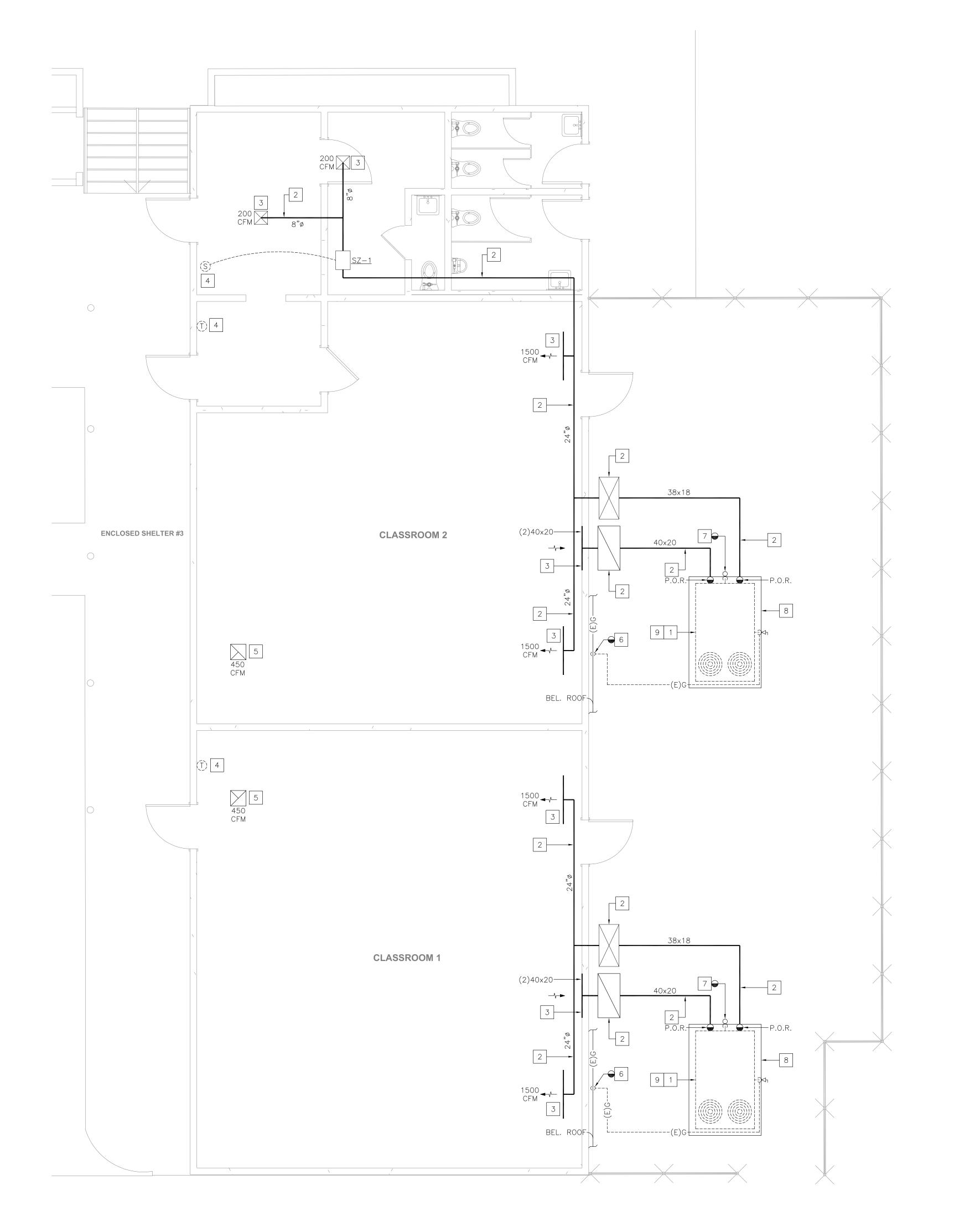
KEY PLAN





MECHANICAL DEMOLITION PLANS -KINDERGARTEN

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□ DEMOLITION NOTES

- 1.- REMOVE EXISTING GRADE MOUNTED AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES AND SIDE DISCHARGE DUCTWORK. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. PREPARE AREA OF REMOVAL TO RECEIVE NEW GRADE MOUNTED AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS AND DEMOLITION NOTES 8 AND 9 ON THIS SHEET 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/SENSOR AND ASSOCIATED ACCESSORIES. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT/SENSOR. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 5.- EXISTING EXHAUST AIR CEILING/SIDEWALL DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL DIFFUSERS AND REMOVE ALL DIRT AND DEBRIS.
- 6.- P.O.R.- REMOVE EXISTING GAS PIPING AT 90° FITTING ABV. GRADE TO A/C UNIT AS INDICATED AND MODIFY FOR RECONNECTION.
- 7.- P.O.R.- REMOVE EXISTING GRADE MOUNTED CONDENSATE DRAIN PIPING IN ITS
- 8.- EXISTING CONCRETE PAD TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 9.- PRIOR TO COMMENCEMENT OF DEMOLITION WORK REMOVE ALL EXISTING EMS UNIT CONTROLLERS FROM EXISTING A/C UNIT. PROTECT DURING CONSTRUCTION FOR RE-INSTALLATION ON NEW A/C UNIT. COORDINATE WITH EMS CONTRACTOR FOR REMOVAL AND RE-INSTALLATION WORK. SEE RENOVATION AND CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.



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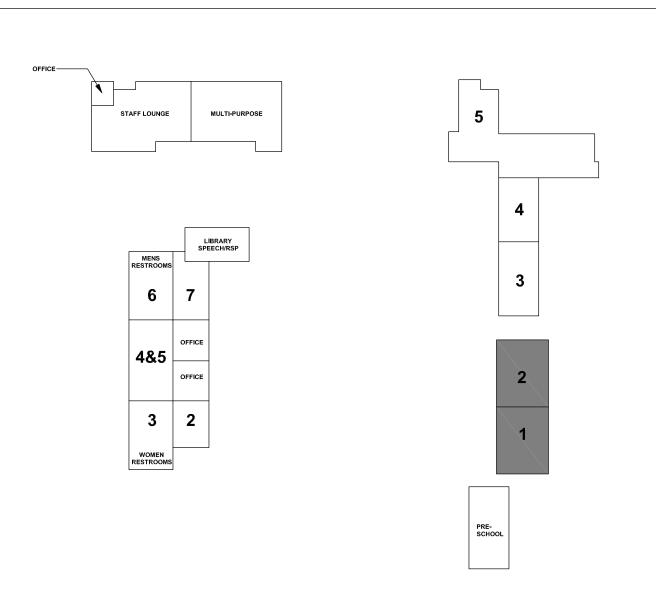
AIR BALANCE NOTE

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.

KEY PLAN



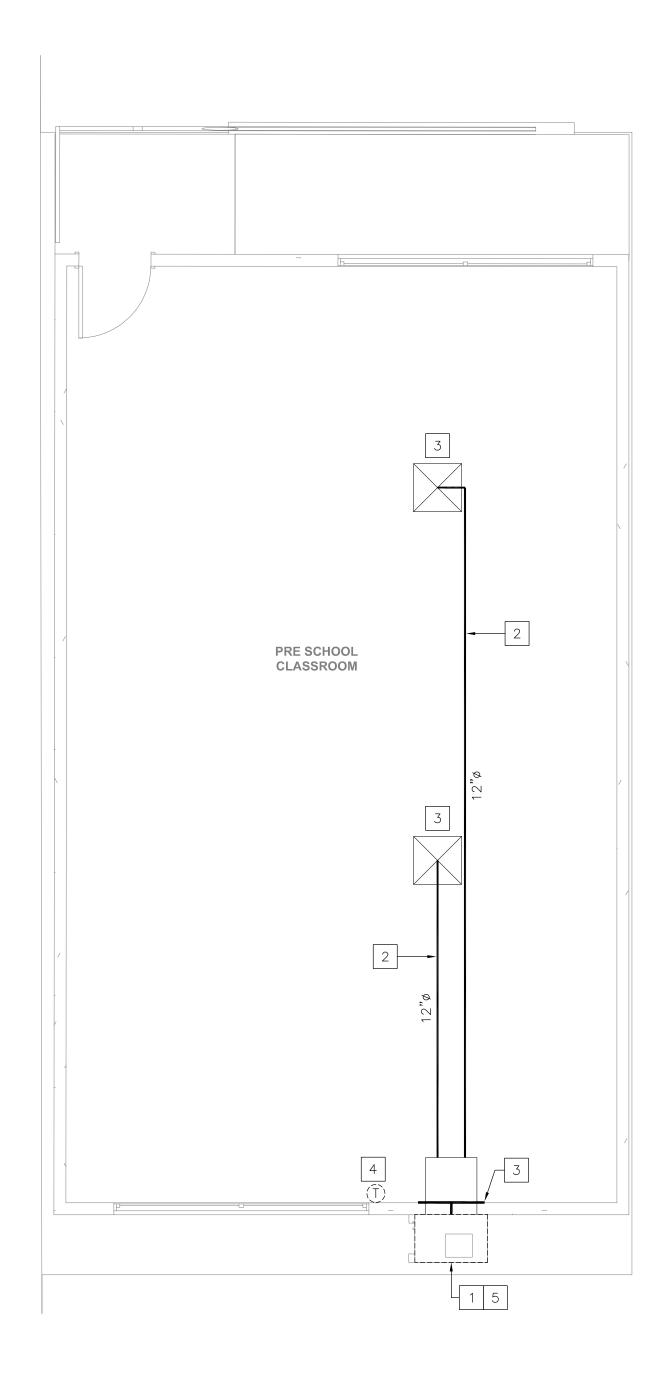


MECHANICAL DEMO. **FLOOR PLAN -**CLASSROOM 1 & 2

MD2-1.3

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- 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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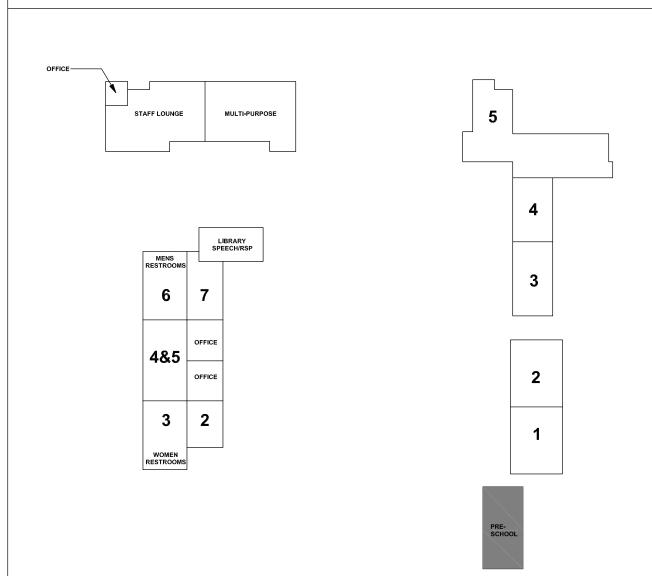
AIR BALANCE NOTE

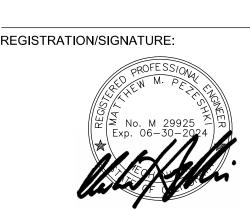
EXISTING AIRFLOW RATES SHOWN ARE FOR REFERENCE ONLY. PERFORM PRE-DEMOLITION AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE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

KEY PLAN



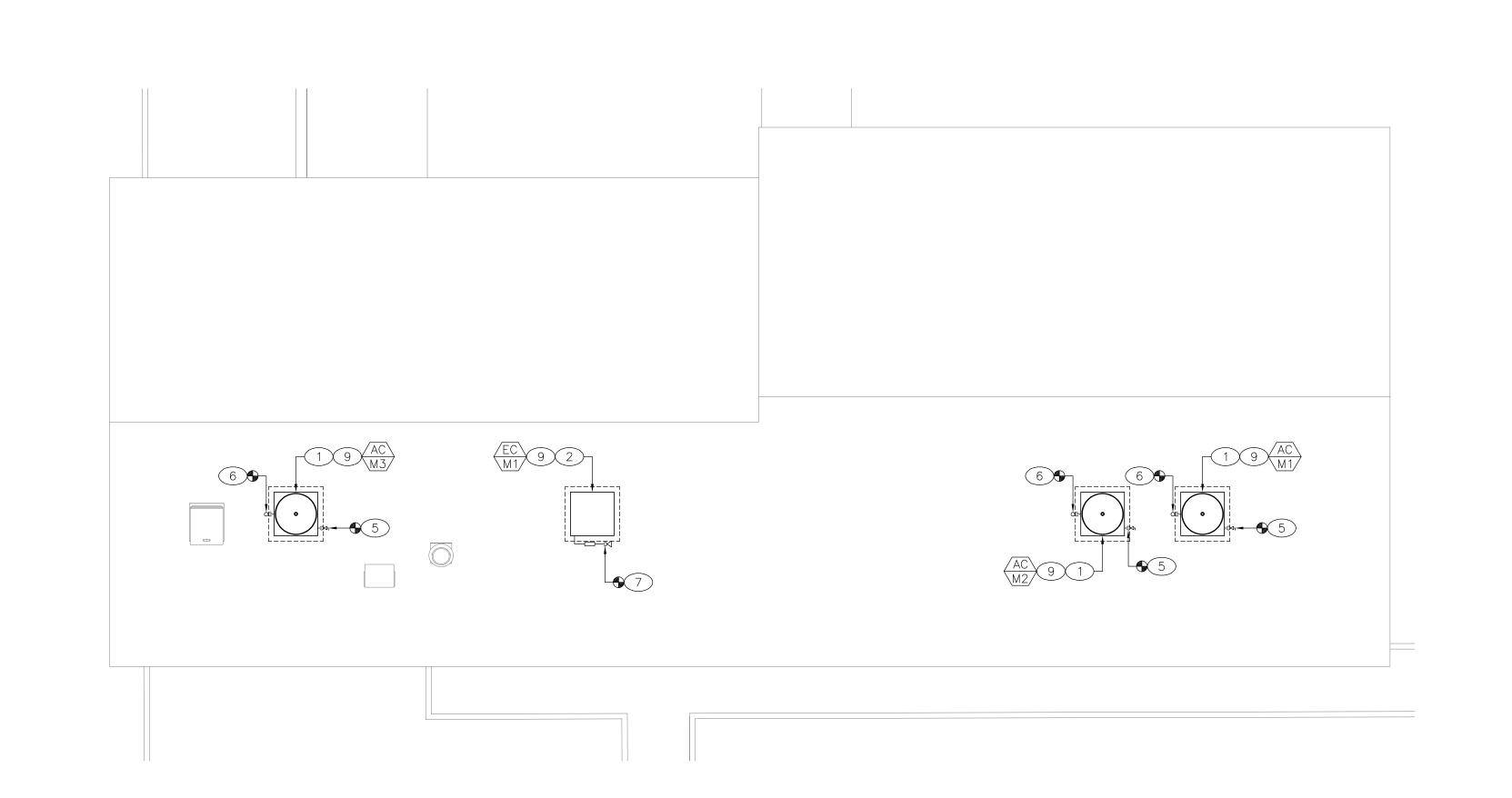


MECHANICAL DEMOLITION FLOOR PLAN - RELOCATABLE

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MECHANICAL DEMOLITION FLOOR PLAN - RELOCATABLE (SINGLE UNIT)



MECHANICAL RENOVATION ROOF PLAN - MULTI-PURPOSE

PLAN NOTES

1.- ROOFTOP PACKAGED AIR CONDITIONER UNIT. INSTALL UNIT ON THE EXISTING ROOF CURB. RECONNECT EXISTING DUCTWORK TO NEW UNIT. SEE NOTE 9 ON THIS SHEET, SCHEDULE ON SHEET MO-1.2 AND DETAIL 6/MO-2.2 FOR ADDITIONAL INFORMATION.

2.- ROOFTOP EVAPORATIVE COOLER UNIT. INSTALL UNIT ON THE EXISTING ROOF CURB. RECONNECT EXISTING DUCTWORK TO NEW UNIT. RECONNECT LINE SIZE DRAIN TO MODIFIED PIPING ABV. ROOF LINE. SEE NOTE 9 ON THIS SHEET, SCHEDULE ON SHEET MO-1.1 AND DETAIL 9/MO-2.1 FOR ADDITIONAL INFORMATION.

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.- DIGITAL THERMOSTAT WITH CO2 SENSOR WITH DIGITAL DISPLAY, 2-HOUR OVERRIDE BUTTON AND CO2 ADJUSTMENT BUTTON. FIELD VERIFY EXACT LOCATION AND QUANTITY PRIOR TO START OF WORK. FOR MOUNTING HEIGHT SEE SHEET MO-1.0. COORDINATE LOCATION OF THERMOSTAT WITH ROOM FURNITURE AND ARCHITECT PRIOR TO

5.- P.O.C.- LINE SIZE GAS (SCH. 40 BLACK STEEL) TO EXISTING PIPING ON ROOF. 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.

6.- P.O.C- 3/4" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT TO EXISTING PIPING ON ROOF. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK. SEE DETAIL 2/M0-2.1 FOR ADDITIONAL INFORMATION.

7.- P.O.C.- 1/2" MAKE-UP COLD WATER (COPPER TYPE 'L') TO EXISTING PIPING ON ROOF. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK. PROVIDE SHUT-OFF VALVE AND FEBCO LF850-1/2" SERIES BACKFLOW PREVENTER.

8.- 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.

9.- RE-INSTALL EXISTING EMS CONTROLLERS TO NEW A/C UNIT. SEE DEMOLITION AND CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.



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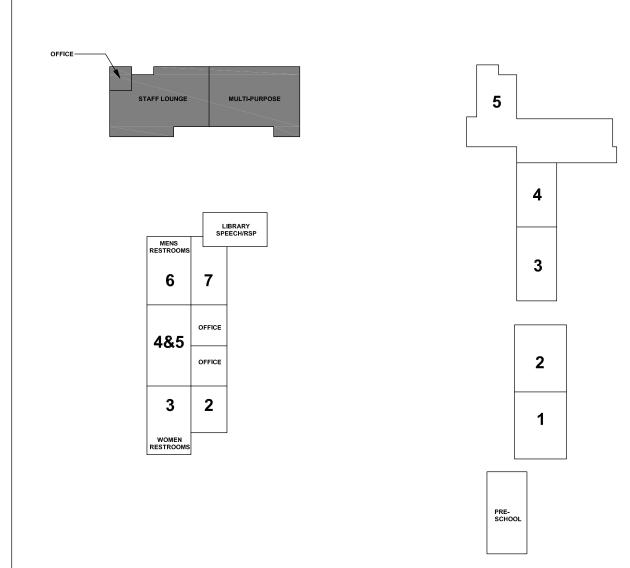


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SIXTH STREET PREP STREAM

ELEMENTARY SCHOOL DISTRICT 15476 6TH ST VICTORVILLE, CA 92395

KEY PLAN



REGISTRATION/SIGNATURE:

MECHANICAL RENOVATION PLANS -MULTI-PURPOSE

WD PROJ. # DRAWN BY: CHECKED DATE

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MECHANICAL RENOVATION FLOOR PLAN - MULTI-PURPOSE

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○ PLAN NOTES

1.- ROOFTOP PACKAGED AIR CONDITIONER UNIT. INSTALL UNIT ON THE EXISTING ROOF PLATFORM. RECONNECT EXISTING SIDE DISCHARGE DUCTWORK TO NEW UNIT WITH NEW FLEX CONNECTOR. PROVIDE SHEET METAL RAIN COVER OVER FLEX CONNECTOR. SEE NOTE 20 ON THIS SHEET, SCHEDULE ON SHEET MO-1.2 AND DETAIL 6/MO-2.1 FOR ADDITIONAL INFORMATION.

- 2.- INSTALL THREE (3) MICROMETL NO. 0876-0500 (12"x12") BAROMETRIC RELIEF DAMPERS ON 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
- 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.- HIGH WALL MOUNTED INDOOR SAC UNIT. SEE SCHEDULE ON SHEET MO-1.1 AND DETAILS 1 & 2/M0-2.2 FOR ADDITIONAL INFORMATION.
- 7.- FULLY INSULATED REFRIGERANT LINES FROM INDOOR UNIT UP THRU ROOF TO OUTDOOR UNIT ON ROOF. SEE DETAIL 1/MO-2.2 FOR ADDITIONAL INFORMATION. PAINT EXPOSED PIPING TO MATCH WALL/CLG. FINISH.
- 8.- SEAL PIPE PENETRATION THRU CMU WALL.

COMPARISON WITH THE PRE-DEMOLITION VALUES.

9.- 3/4" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT. EXTEND SERVICE AS

10.- SPLIT AIR CONDITIONER WIRED THERMOSTAT. SEE SHEET MO-1.0 FOR MOUNTING HEIGHT REQUIREMENTS.

- 11.- 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 SCHEDULE ON SHEET MO-1.1 AND DETAIL 5/M0-2.1 FOR ADDITIONAL INFORMATION.
- 12.-3/4" CD (COPPER TYPE 'M') FROM OUTDOOR HP UNIT DN. FACE OF WALL AND TERMINATE WITH A 90° ELBOW AT +6" ABV. GRADE.
- 13.-3/4" CD (COPPER TYPE 'M') DN. FACE OF WALL AND DISCHARGE INTO EXISTING SERVICE SINK WITH LEGAL AIR-GAP. PAINT EXPOSED PIPING TO MATCH WALL FINISH. SUPPORT PIPING ON WALL WITH CHANNEL STRUT AND PIPE CLAMP AT 3'-0" O.C.
- 14.- P.O.C.- LINE SIZE GAS (SCH. 40 BLACK STEEL) TO EXISTING PIPING ON ROOF. 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.
- 15.- P.O.C- 3/4" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT TO EXISTING PIPING ON ROOF. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK. SEE DETAIL 4/M0-2.2 FOR ADDITIONAL INFORMATION.
- 16.— SAC OUTDOOR UNIT. SEE SCHEDULE ON SHEET MO-1.1 AND DETAILS 1 & 3/MO-2.2FOR ADDITIONAL INFORMATION.
- 17.- ERICO PYRAMID PIPE SUPPORT WITH PIPE CLAMP EVERY 6'-0" O.C. MAX. SECURE TO
- 18.- FULLY INSULATED REFRIGERANT LINES DOWN THRU ROOF TO SAC INDOOR UNIT. SEE SCHEDULE AND DETAILS 1 & 5/M0-2.2 FOR ADDITIONAL INFORMATION.
- 19.- INSTALL TWO (2) MICROMETL NO. 0876-0500 (12"X12") BAROMETRIC RELIEF DAMPERS ON RETURN AIR DUCTWORK.
- 20.— RE—INSTALL EXISTING EMS CONTROLLERS TO NEW A/C UNIT. SEE DEMOLITION AND CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.

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Fax (714) 884-3834 PEI #600.030

Santa Ana, CA 92705

Telephone (714) 884-3834

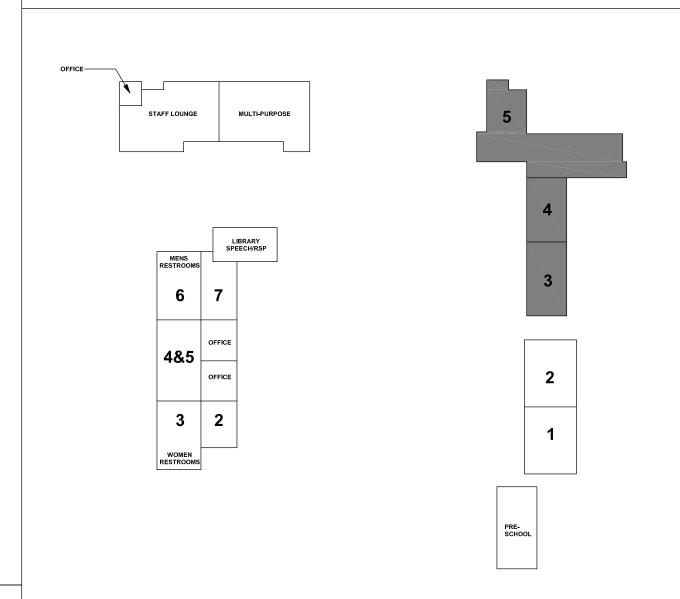
SIXTH STREET PREP STREAM

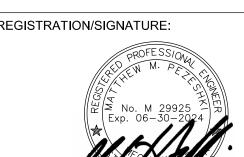
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SPECIAL NOTE

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.

KEY PLAN



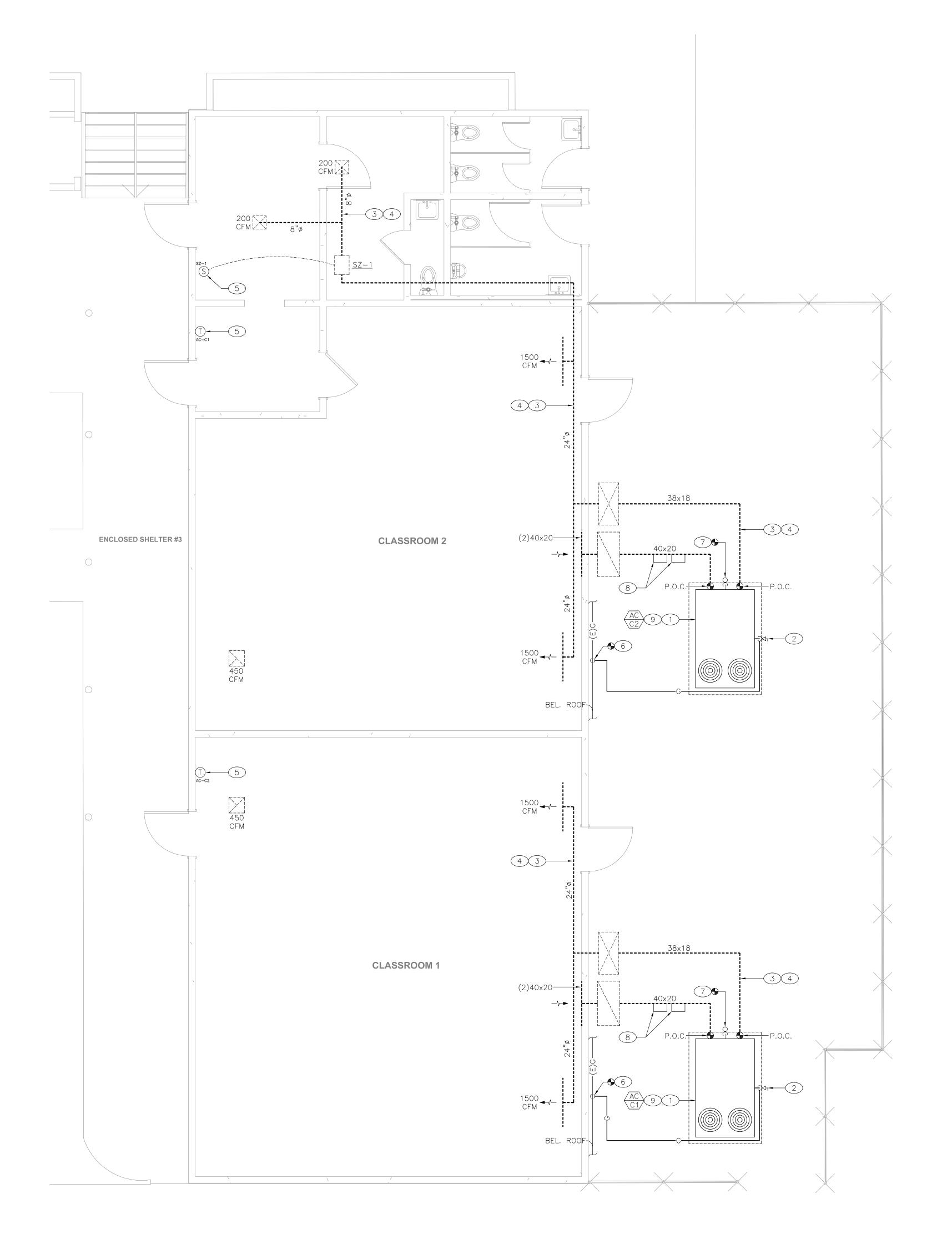


MECHANICAL RENOVATION PLANS -KINDERGARTEN

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MECHANICAL RENOVATION FLOOR PLAN - KINDERGARTEN



PLAN NOTES

- 1.- GRADE MOUNTED PACKAGED AIR CONDITIONER UNIT ON EXISTING CONCRETE PAD. SEE NOTE 9 ON THIS SHEET, SCHEDULE ON SHEET MO-1.2 AND DETAILS 1 & 4/MO-2.1FOR ADDITIONAL INFORMATION.
- 2.- 1-1/4" GAS COMPLETE WITH A LISTED YELLOW FLEXIBLE CONNECTOR, SHUT-OFF COCK, UNION AND 6" DIRT LEG. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.). PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR TO MATCH SURROUNDING AREA. SEE DETAIL 7/M0-2.2 FOR ADDITIONAL INFORMATION.
- 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.- 1-1/4" GAS (SCH. 40 BLACK STEEL) TO EXISTING PIPING ABV. GRADE. EXTEND SERVICE AS INDICATED. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.). PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR TO MATCH SURROUNDING AREA. SEE DETAIL 7/M0-2.2 FOR ADDITIONAL INFORMATION.
- 7.- 3/4" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT. EXTEND CD ABV. GRADE TO EXISTING FLOOR RECEPTOR COMPLETE WITH LEGAL AIR-GAP. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.). SEE DETAIL 8/M0-2.2FOR ADDITIONAL INFORMATION.
- 8.- INSTALL TWO (2) MICROMETL NO. 0876-0500 (12"x12") BAROMETRIC RELIEF DAMPERS ON RETURN AIR DUCTWORK.
- 9.- RE-INSTALL EXISTING EMS CONTROLLERS TO NEW A/C UNIT. SEE DEMOLITION AND CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.



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SIXTH STREET PREP STREAM

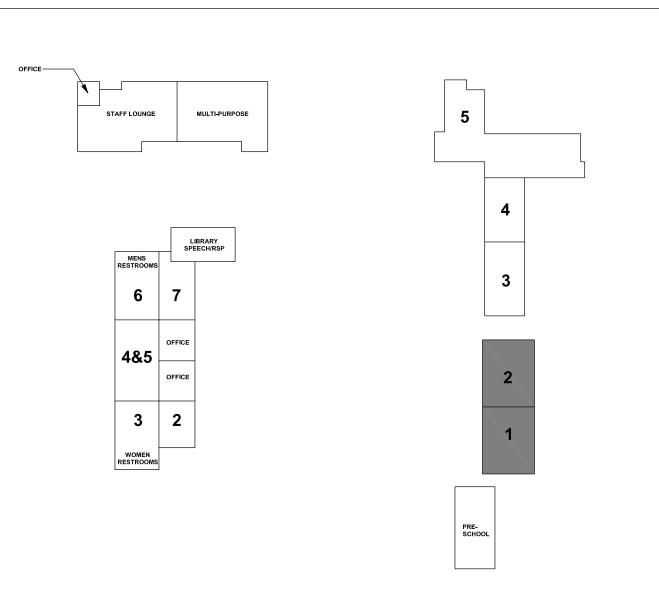
ELEMENTARY SCHOOL DISTRICT 15476 6TH ST VICTORVILLE, CA 92395

DEVISIONS:	
REVISIONS:	

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.

KEY PLAN

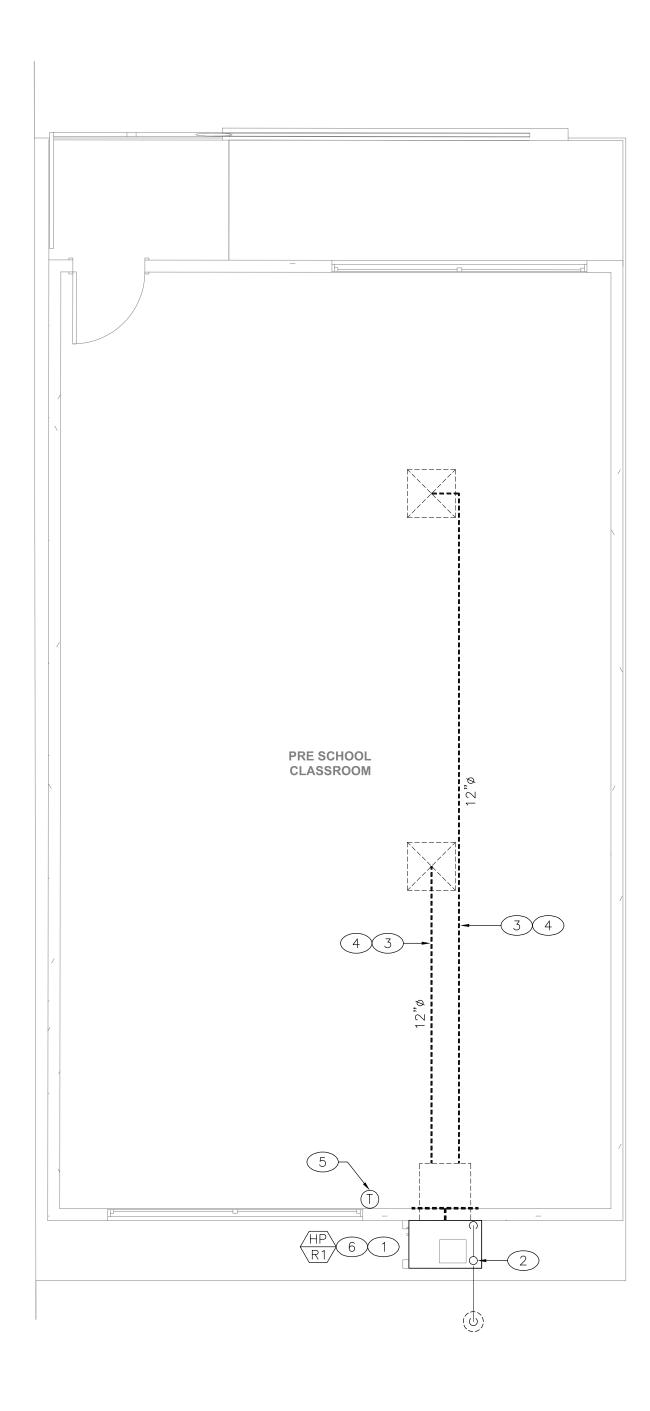


REGISTRATION/SIGNATURE

MECHANICAL RENO. **FLOOR PLAN -**CLASSROOM 1 & 2

M2-1.3

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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, REPAIR 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-1.1, DETAIL 5/MO-2.1 AND GENERAL NOTE ON THIS SHEET FOR ADDITIONAL INFORMATION.

2.- 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.

- 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.— RE—INSTALL EXISTING EMS CONTROLLERS TO NEW WALL MOUNTED HEAT PUMP UNIT. SEE DEMOLITION AND CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.



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19520 Jamboree Road | Suite 100

Irvine I California I 92612

949.250.0880 | FAX 949.250.0882

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SIXTH STREET PREP STREAM

VICTOR
ELEMENTARY
SCHOOL DISTRICT

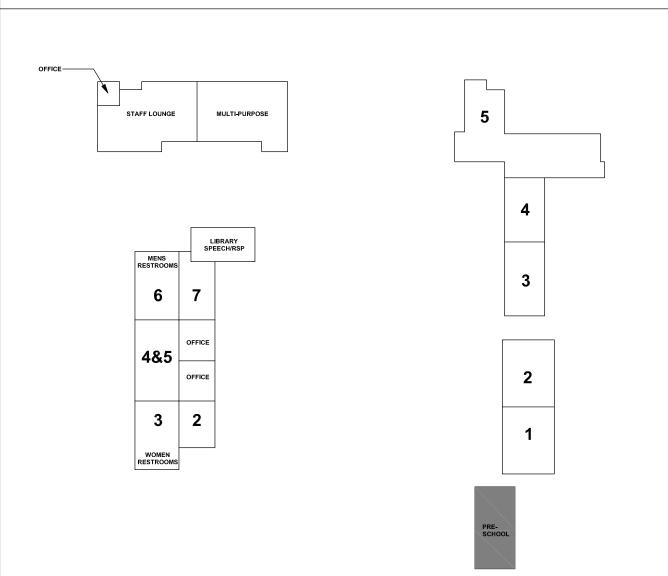
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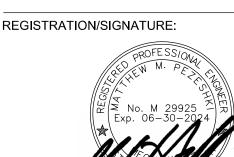
REVISIONS:

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—1.1.

KEY PLAN





SHEET TITLE:

MECHANICAL RENOVATION FLOOR PLAN - RELOCATABLE

HEET NUMBER: 14

WD PROJ. # DRAWN BY: CHECKED DATE 07/18/2

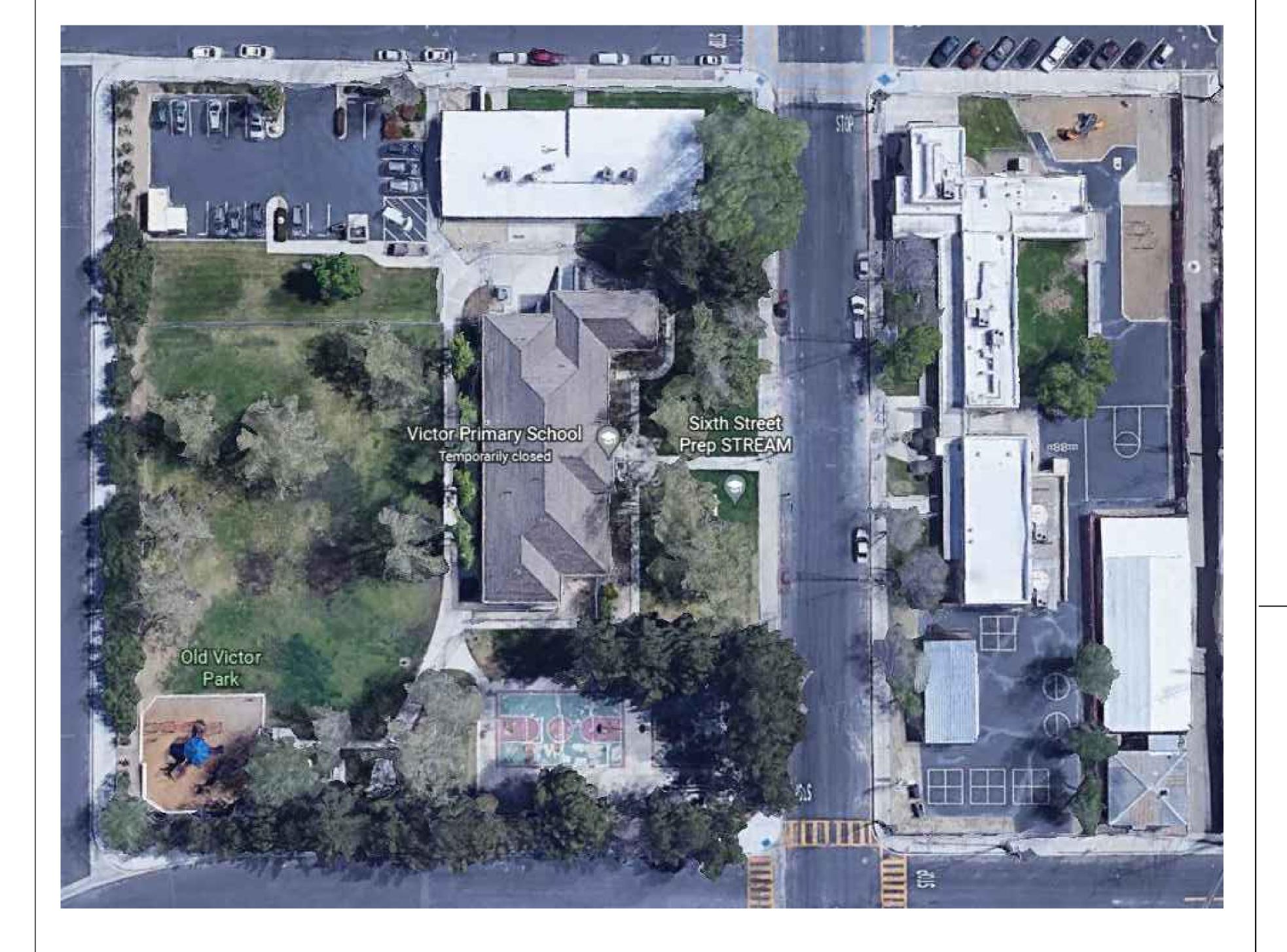
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NORTH

MECHANICAL RENOVATION FLOOR PLAN - RELOCATABLE (SINGLE UNIT)

VICTOR ELEMENTARY SCHOOL DISTRICT SIXTH ST. PREP STREAM - HVAC UPGRADE

VICTORVILLE, CALIFORNIA



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: PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2023 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 Fire Code (CFC), Part 9, 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 APPLICABLE STANDARDS FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

NOTES

CONSTRUCTION GENERAL NOTES

- WHENEVER CUTTING, PATCHING, ETC. IS REQUIRED; ALL ADJACENT SURFACES SHALL BE FINISHED TO ACHIEVE A
- 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 ENSURE NO DISRUPTION TO FACILITY SERVICES.
- 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.
- 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 REPRESENT ALL CONDITIONS PRESENT AT THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE SITE FOR CONSTRUCTION AS DESCRIBED AND DETAILED IN THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE AND LEGIBLE AS-BUILT DRAWINGS DOCUMENTS 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

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SIXTH STREET PREP STREAM

ELEMENTARY SCHOOL DISTRICT 15476 SIXTH ST.

VICTORVILLE, CA 92395

PROJECT DESCRIPTION

SHEET INDEX

ELECTRICAL GENERAL NOTES & SYMBOLS LIST

EXISTING OVERALL SITE PLAN

ENLARGED PLANS - KINDERGARTEN

ENLARGED PLANS - CLASSROOM 1 & 2

ENLARGED PLANS - MULTIPURPOSE

ENLARGED PLANS - RELOCATABLE

DWG. NO. DESCRIPTION

TITLE SHEET

E000

E0-1.1

E5-1.4

HVAC REPLACEMENT

PROJECT TEAM

PROJECT ADDRESS VEUSD SIXTH ST. PREP STREAM

15476 SIXTH ST. VICTORVILLE, CALIFORNIA 92395

ELECTRICAL ENGINEER

AG DESIGN, INC

PHONE | 714.769.9900

2100 W ORANGEWOOD AVE, SUITE 165 ORANGE, CALIFORNIA 92868

REGISTRATION/SIGNATURE:

TITLE SHEET

E000

WD PROJ. # DRAWN BY: CHECKED DATE





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.
- 2. EC SHALL COORDINATE AND OBTAIN ALL APPROVALS, PERMITS, AND DOCUMENTS FROM REGULATORY AGENCIES AND
- UTILITY COMPANIES.

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

FLEXIBLE METALLIC CONDUIT I S PERMITTED FOR SHORT CONNECTIONS TO LIGHT FIXTURES (6'-0" MAX).

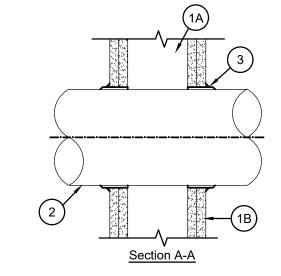
3. ALL CONDUIT RACEWAY SYSTEMS ARE TO BE INSTALLED AS FOLLOWS:

- 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

<u>ABBR</u>	<u>EVIATIONS</u>		
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
A E / A E	(SYMMETRICAL)	M.C.	MECHANICAL CONTRACTOR
AF/AT	AMP FRAME, AMP TRIP	M	METER MAIN
AHJ AS/AF	AUTHORITY HAVING JURISDICTION AMP SWITCH, AMP FUSE	M/M MV	METER MAIN
AS/AF ATS	AUTOMATIC TRANSFER SWITCH	MH	MERCURY VAPOR 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
СВ	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
CT	CURRENT TRANSFORMER	NF	NON-FUSED
DIA	DIAMETER	NIC	NOT IN CONTRACT
DISC	DISCONNECT	N.T.S.	NOT TO SCALE
DIST E	DISTRIBUTION	NL NO 377#	NIGHT LIGHT
E.C.	EXISTING EQUIP. TO REMAIN ELECTRICAL CONTRACTOR	NO. or # OFCI	NUMBER
E.C. EMS	ENERGY MANAGEMENT CONTROL	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED.
LIVIO	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	EXPLOSION PROOF	PROVIDE	FURNISH, INSTALL AND CONNECT.
ER*	EXISTING EQUIP. TO BE REOLCATED	PT	POTENTIAL TRANSFORMER
	(* CORRESPONDS TO NEW LOCATION)	PA	PUBLIC ADDRESS
ERT*	NEW LOCATION FOR REOLCATED EQUIP.	REC, RECEPT	RECEPTACLE
	(* CORRESPONDS TO PREVIOUS LOCATION)	REF	REFRIGERATOR
FT or '	FEET	RGS	RIGID GALVANIZED STEEL
FA	FIRE ALARM	RMS	ROOT MEAN SQUARE
FLA	FULL LOAD AMPS	SCC	SHORT CIRCUIT CURRENT
GRD	GROUND	SCS	STRUCTURED CABLING SYSTEM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER.	SFD	SMOKE FIRE DAMPER
GFP GEC	GROUND FAULT PROTECTION GROUNDING ELECTRODE CONDUCTOR	SECONDARY	600 VOLTS AND LESS
HACR	HEATING AIR CONDITIONING	SMACNA	SHEET METAL & AIR COND. CONTRACTORS' NAT'L ASSOC.
ПАСК	REFRIGERATION	SQ.	SQUARE
HOA	HAND-OFF-AUTO	TC	TIMECLOCK
HVAC	HEATING, VENTILATING AND AIR	TEL/DATA	TELEPHONE AND DATA
TIVAO	CONDITIONING	TV	TELEVISION
H.,W.,D.,L.	HEIGHT, WIDTH, DEPTH, LENGTH	T.V.S.S.	TRANSIENT VOLTAGE SURGE
HID	HIGH INTENSITY DISCHARGE	1.7.0.0.	SUPPRESSION
HP	HORSEPOWER	TYP	TYPICAL
HPS	HIGH PRESSURE SODIUM	U.G.P.S.	UNDERGROUND PULL SECTION
IN. or "	INCHES	U.O.N.	UNLESS OTHERWISE NOTED
I/G	ISOLATED GROUND	U.P.S.	UNINTERRUPTABLE POWER SYSTEM
IDF	INTERMEDIATE DISTRIBUTION FRAME	VAV	VARIABLE AIR VOLUME
JBOX	JUNCTION BOX	V	VOLTS
K	DEGREE KELVIN	VA	VOLT AMPERES
KCMIL	THOUSAND CIRCULAR MILS	VD	VOLTAGE DROP
KVA	KILOVOLT AMPERES	WP	WEATHERPROOF
KW	KILOWATT	W	WIRE
KWH	KILOWATT HOUR	XFMR	TRANSFORMER
LCL	LONG CONTINUOUS LOAD	XX	EXISTING EQUIP. TO BE DEMO'D
IF	I INEAR FEET		

OR (



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:

2011.			
AX PIPE CONDUIT DIAM, IN	ANNULAR SPACE, IN	F RATING HR	T RATING HR
ZIZIVI, IIV	114	TIIX	1111
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.

LIGHTING FIXTURE DESIGNATION

REVISION REFERENCE.

GROUND

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

WYE CONFIGURATION

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

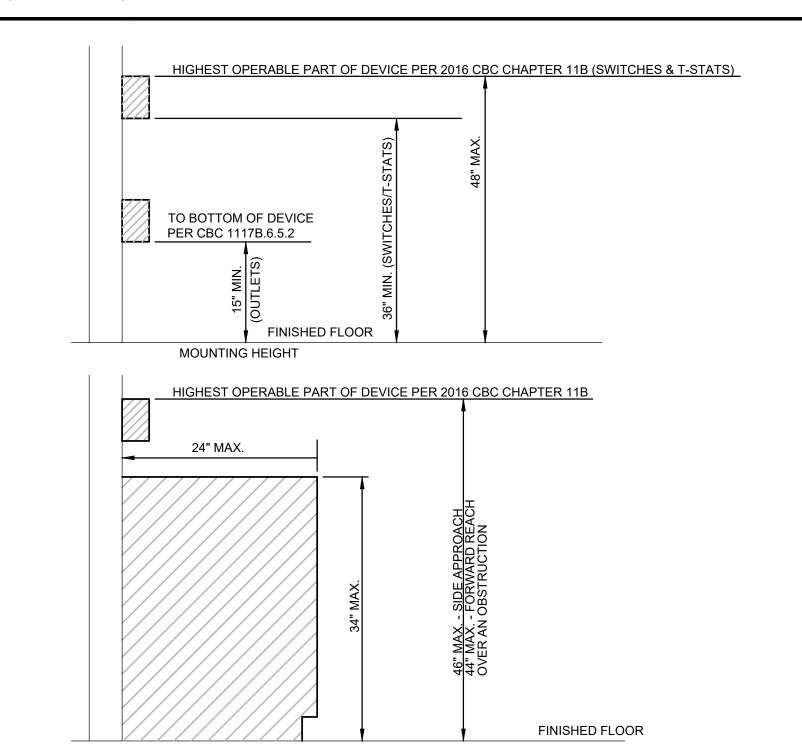
MP□MD□PP□E□ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # 0043 or 0052 ALL CONDUITS 3" AND LARGER ARE TO BE SEISMICALLY BRACED/ANCHORED. CONTRACTOR TO REFER TO STRUCTURAL

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: 04-122084 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 09/27/2023



19520 Jamboree Road | Suite 100 Irvine | California | 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com



2100 W Orangewood Ave Suite 165 | Orange, CA 92868

PREP STREAM

VICTORVILLE, CA 92395

REGISTRATION/SIGNATURE

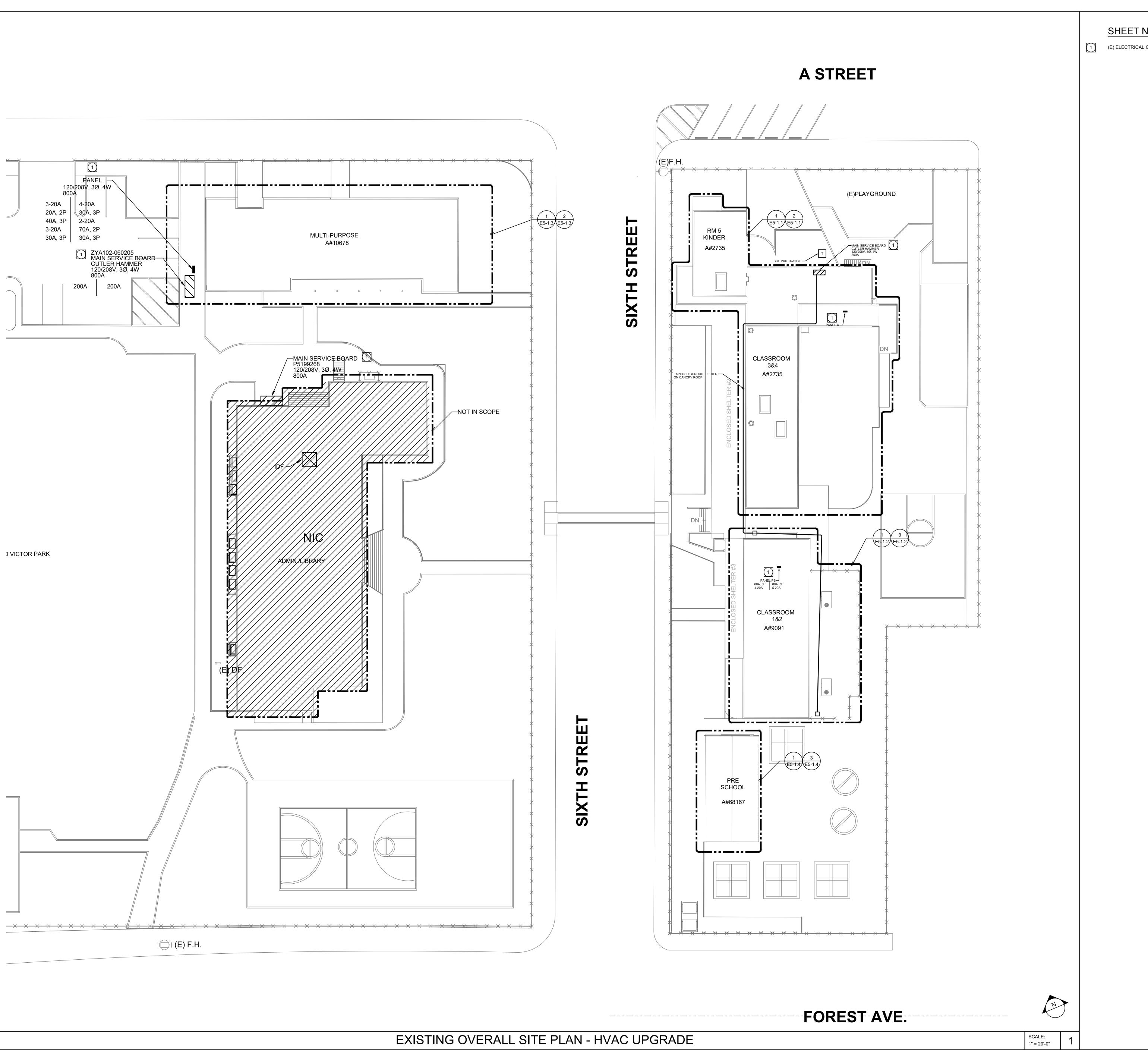
SHEET NUMBER:

WD PROJ. # DRAWN BY: CHECKED DATE DL, AM GM

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FIRE RATED PENETRATION DETAIL (TYP.) 02 ADA DEVICE MOUNTING DETAIL

OVER OBSTRUCTION



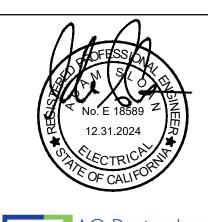
SHEET NOTE:

(E) ELECTRICAL GEAR TO REMAIN.

IDENTIFICATION STAMP APP: 04-122084 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌



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SIXTH STREET PREP STREAM

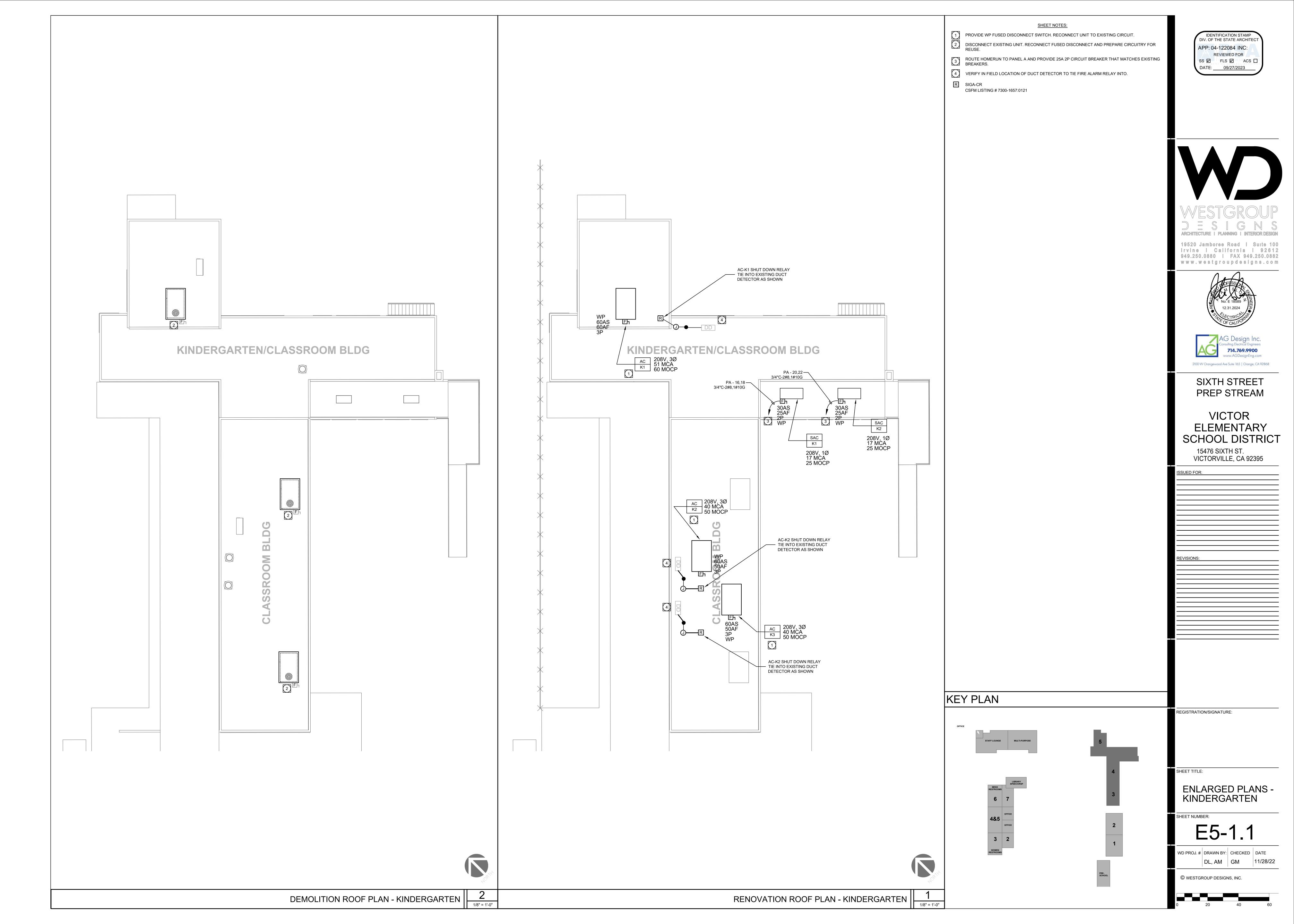
VICTOR ELEMENTARY SCHOOL DISTRICT 15476 SIXTH ST. VICTORVILLE, CA 92395

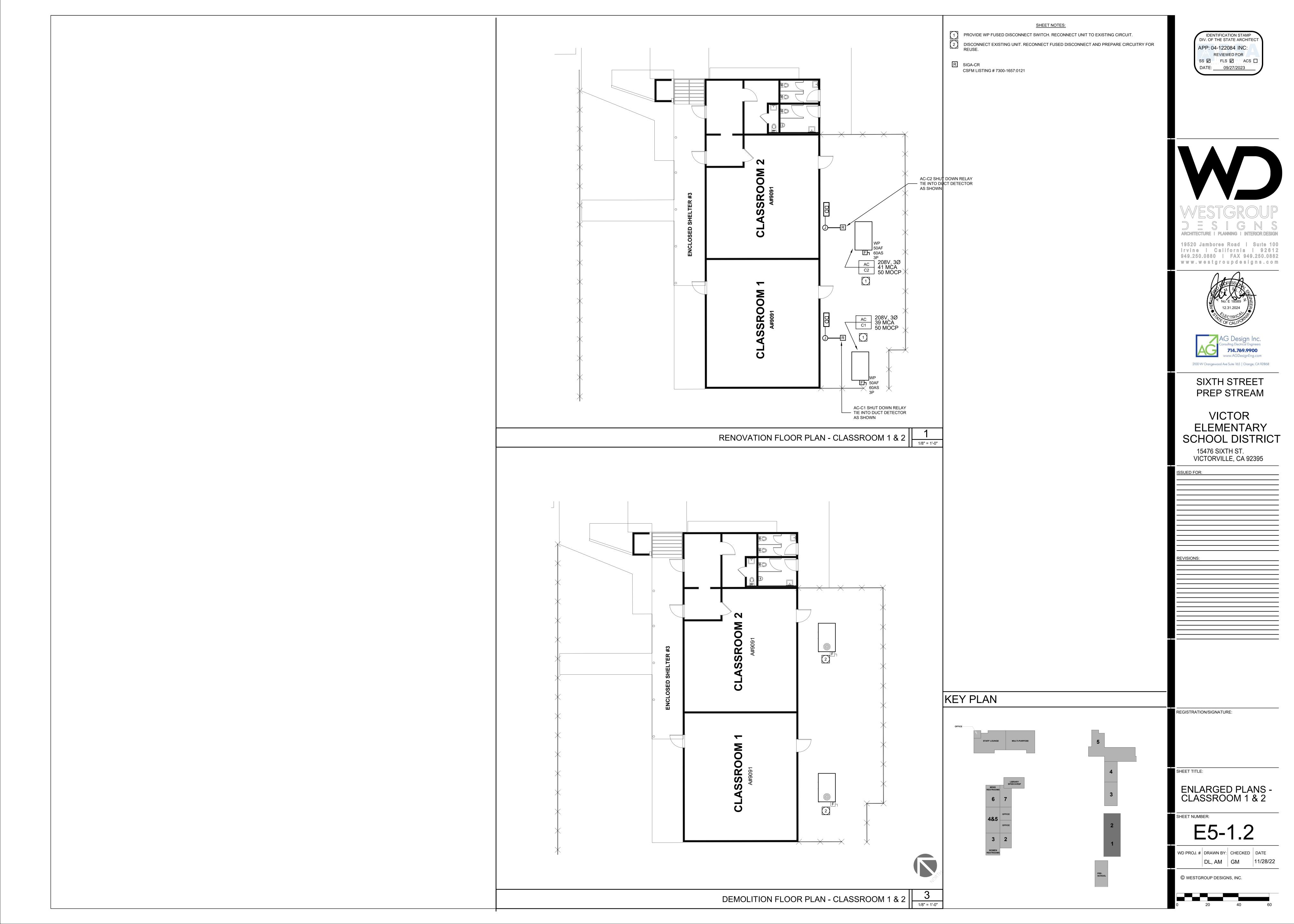
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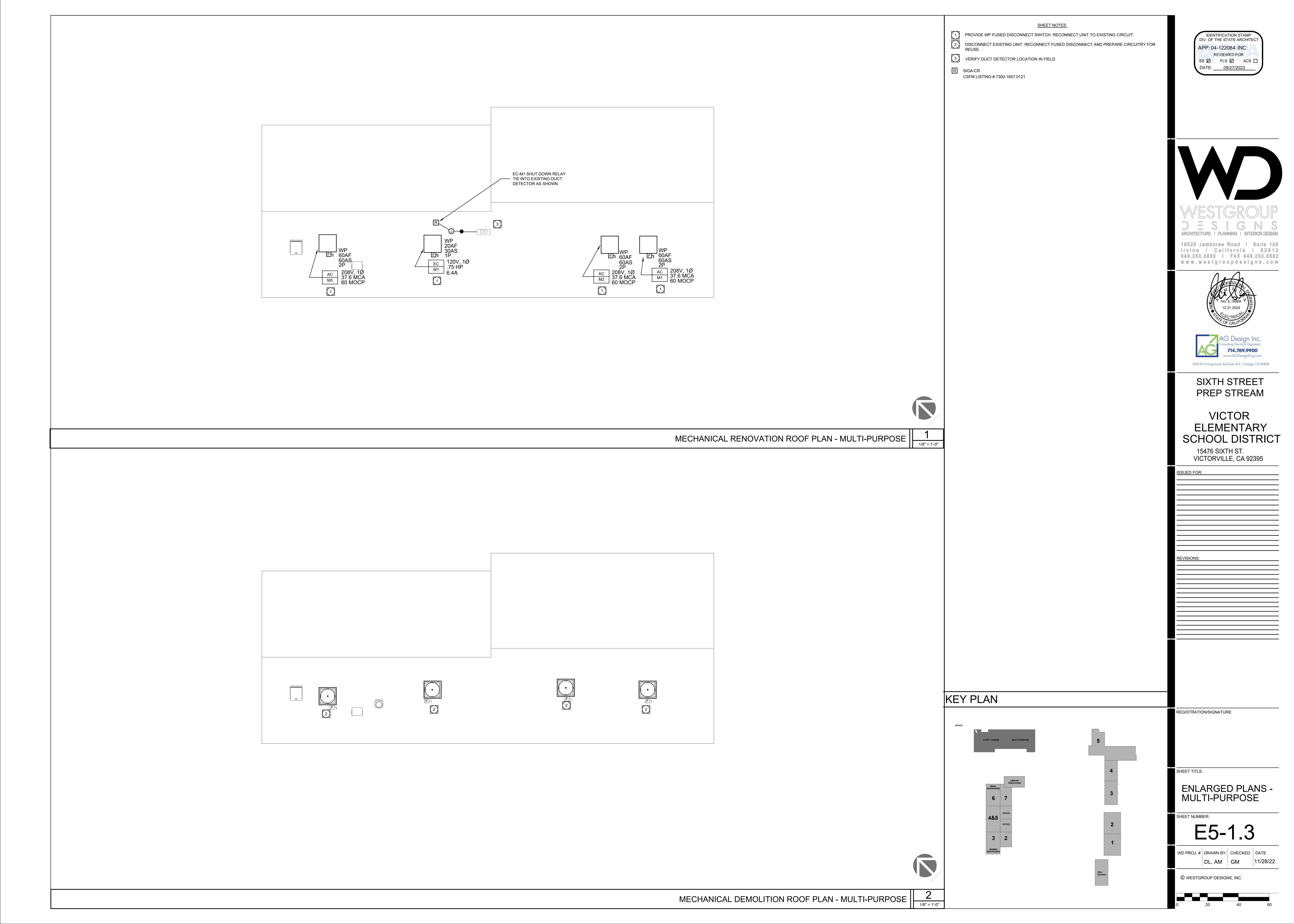
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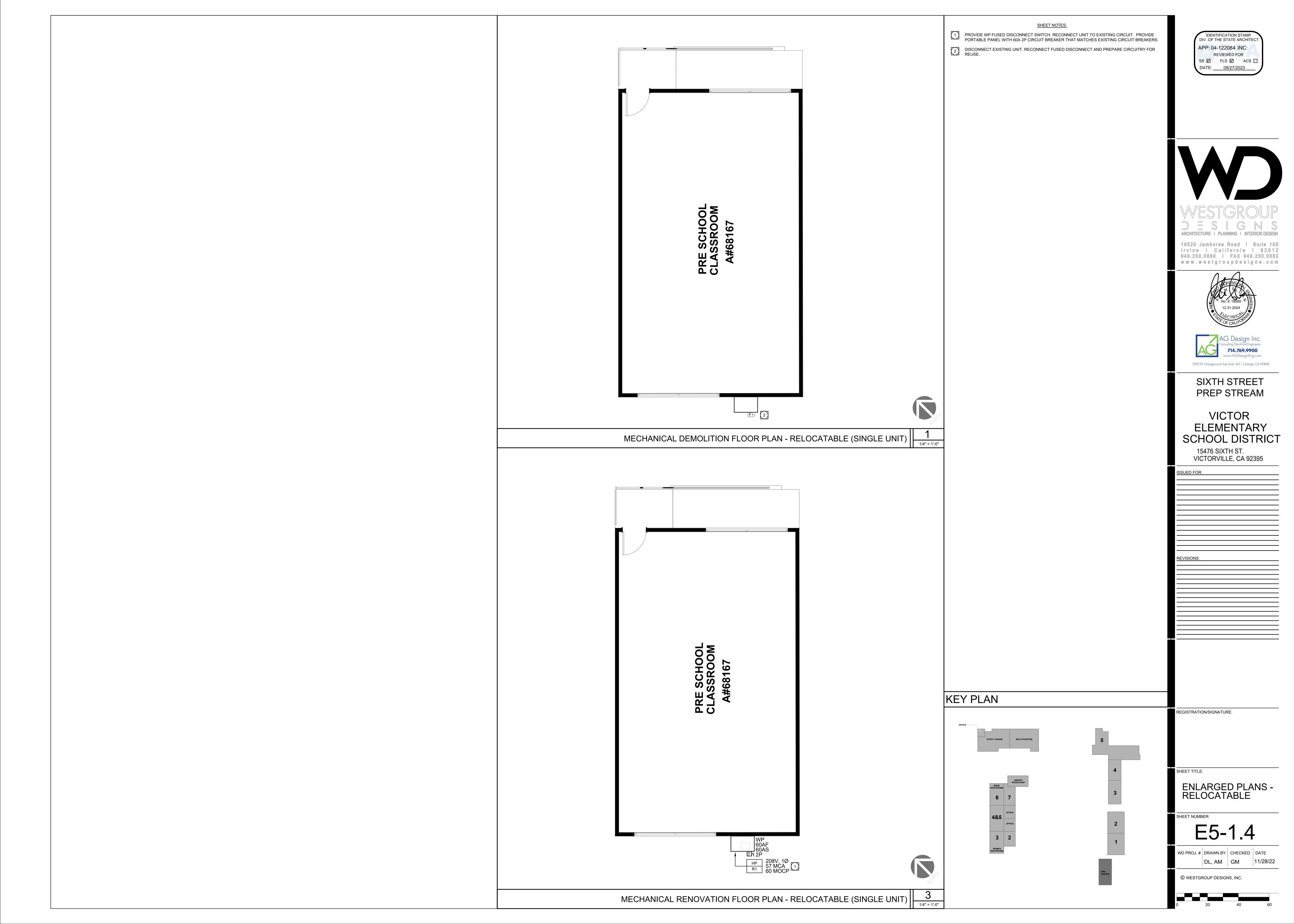
EXISTING OVERALL SITE PLAN

E0-1.1









ALT. ACI APA	ALTERNATE AMERICAN CONCRETE INSTITUTE AMERICAN PLYWOOD ASSOCIATION
ASTM AWS A.B.	AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WELDING SOCIETY ANCHOR BOLT(S)
PPROX. RCH.	APPROXIMATELY ARCHITECT / ARCHITECTURAL AT
PL. M.	BASE PLATE BEAM
RG. TWN. LK.	BEARING BETWEEN BLOCK
LK. LKG. .E. OT. OR BOTT.	BLOCKING BOTH ENDS BOTTOM
.N. LDG.	BOUNDARY NAILS BUILDING
BC	CAMBER CALIFORNIA BUILDING CODE
IP LG. J	CAST IN PLACE CEILING CEILING JOIST OR CONSTRUCTION JOINT OR CONTROL J
JP LR.	COMPLETE JOINT PENETRATION WELD CENTER LINE CLEAR
OL. ONC. MU	COLUMN CONCRETE CONCRETE MASONRY UNIT
OND. ONN.	CONDITION CONNECTION
ONSTR. ONT'D ONT.	CONSTRUCTION CONTINUED CONTINUOUS
ONTR. SK.	CONTRACTOR COUNTERSINK
L P. EMO.	DEAD LOAD DEEP DEMOLISH
TL. OR DET. IAG.	DETAIL DIAGONAL
A. OR Ø M. O	DIAMETER DIMENSION DITTO
BL. J.F. WL.	DOUBLE DOUGLAS FIR DOWEL
N. WG.	DOWN DRAWING
A. .F.	EACH FACE
.S. .W. .N.	EACH SIDE EACH WAY EDGE NAIL(S)
LEC. LEV. MBED.	ELECTRICAL ELEVATION EMBEDMENT
NG. Q. QUIP.	ENGINEER EQUAL EQUIPMENT
XCAV. E)	EXCAVATION EXISTING
XP. J S	EXPANSION EXPANSION JOINT EVALUATION SERVICE
SR XT.	EVALUATION SERVICE REPORT EXTERIOR
.O.C. .O.M. .O.S.	FACE OF CONCRETE FACE OF MASONRY FACE OF STUD OR FACE OF SLAB
S. N.	FAR SIDE FINISH
.F. HWS LR.	FINISHED FLOOR FLAT HEAD WOOD SCREW FLOOR
D TG. NDN.	FLOOR DRAIN FOOTING FOUNDATION
RMG. GALV.	FRAMING GALVANIZE
SA. GLU—LAM GLB	GAUGE GLUED LAMINATED GLUED LAMINATED BEAM
GR.	GRADE HANGER
IR IDR.	HARDROCK HEADER
tt. ID ISS	HEIGHT HOLD DOWN HOLLOW STRUCTURAL SECTION
iORIZ. NFO.	HORIZONTAL INFORMATION
.D. NT. BC	INSIDE DIAMETER INTERIOR INTERNATIONAL BUILDING CODE
CC NV.	INTERNATIONAL CODE COUNCIL INVERT
ST.	JOIST KING POST
(P (SI	KING POST KIPS PER SQUARE INCH
AM. DGR. T. WT. OR LW	LAMINATED LEDGER LIGHT WEIGHT
L G. LH	LIVE LOAD LONG OR LENGTH LONG LEG HORIZONTAL
LCH LV .O—HY	LONG LEG HORIZONTAL LOW HYDROGEN
M.B. MFR.	MACHINE BOLT(S) MANUFACTURER
MAS. M.O. MATL.	MASONRY MASONRY OPENING MATERIAL
IAX. IECH. ITL.	MAXIMUM MECHANICAL METAL
IIN. IISC. IU	MINIMUM MISCELLANEOUS MECHANICAL UNIT
l.F.	NEAR FACE
I.S. ISA N)	NEAR SIDE NELSON STUD ANCHOR NEW
IIĊ. ITS. IO. OR #	NOT IN CONTRACT NOT TO SCALE NUMBER
D.C. DPNG.	ON CENTER OPENING
)PP.).H.	OPPOSITE OPPOSITE HAND
o.d. PHWS	OUTSIDE DIAMETER PAN HEAD WOOD SCREW
.J. IL	PANEL JOINT PENNY PILASTER
L. OR L LY. WJ	PLATE (STEEL OR WOOD) PLYWOOD PLYWOOD WEB JOIST
PCF PSF	POUNDS PER CUBIC FOOT POUNDS PER SQUARE FOOT
PSI PT PTDF	POUNDS PER SQUARE INCH PRESSURE TREATED PRESSURE TREATED DOUGLAS FIR
AD.	PROPERTY LINE RADIUS
FTR. EF. EINF.	RAFTER REFERENCE REINFORCING
EQ'D EQMT.	REQUIRED REQUIREMENT
F. .D.	ROOF ROOF DRAIN

LIST OF ABBREVIATIONS (CONT'D)

ROUGH ROUGH OPENING RO. R.O. SCHED. SCHEDULE SECTION

SELECT SEPARATION STRUCTURAL FORCE RESISTING SYSTEM SHEATHING

SHEET SHEET METAL SHEET METAL SCREWS

SIMPSON SPACING SPECS. SPECIFICATION SQUARE STAGGER STGR. STAINLESS STEEL

SPC STANDARD PIPE COLUMN STD. STANDARD STEEL STIFF. STIFFENER STIRR. STIRRUP

STRUCT. **STRUCTURAL SYMMETRICAL** SYM. TAPERED STEEL GIRDER THICK 1,000 POUNDS K OR KIP THROUGH TOE NAIL TONGUE AND GROOVE TOP AND BOTTOM

T.O.F. TOP OF FOOTING T.O.L. TOP OF LEDGER T.O.S. TOP OF STEEL OR TOP OF SHEATHING T.O.W. TOP OF WALL TOTAL LOAD TUBE STEEL TYPICAL U.N.O. UNLESS NOTED OTHERWISE

VERIFY IN FIELD VERT. VERTICAL WEIGHT

WELDED WIRE FABRIC WITH WITHOUT WOOD WOOD-I-JOIST WORK POINT W.S. WOOD SCREW

GENERAL

1. THESE STRUCTURAL DRAWINGS AND SPECIFICATIONS, INCLUDING ANY ADDENDA (COLLECTIVELY "THE PLANS") INCORPORATE ALL LEGAL AND INDUSTRY REQUIREMENTS AND STANDARDS INCLÚDING 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 SPECIFICATIONS.

• 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.

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.

OTHERWISE PROCEEDING.

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 CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR

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, OR 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, $V_{ASD} = 89$ MPH VELOCITY PRESSURE EXPOSURE COEFFICIENT, $K_Z = VARIES$ TOPOGRAPHIC FACTOR, $K_{Zt} = 1.0$ WIND DIRECTIONALITY FACTOR, $K_1 = 0.85$ 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, $(G_{CP}) = TABLE 26.13-1$

3. EARTHQUAKE LOADS

SEISMIC DESIGN CRITERIA (BASES ON ATC HAZARD SEISMIC DESIGN SERVICE) $S_S = 1.112$

 $S_1 = 0.430$ SITE CLASS: D - DEFAULT $S_{DS} = 0.890$ 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

EXISTING CONDITIONS

DISCREPANCIES OR INCONSISTENCIES.

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.

• THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES

2. 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.

> 4. 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.

1. 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 SHALL BE 19% OR LESS.

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

EXPOSED MEMBERS SHALL BE SELECT STRUCTURAL GRADE, FREE OF HEART CENTER (WHERE SIZE PERMITS), AND SELECTED FOR APPEARANCE AND STRAIGHTNESS.

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.

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

. 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:

A. SHANK PORTION SAME DIAMETER AND LENGTH OF SHANK.

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 DEMONSTRATION AND THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE 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

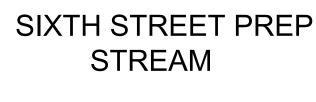
2. PLYWOOD NAILING - REFER TO PLANS.

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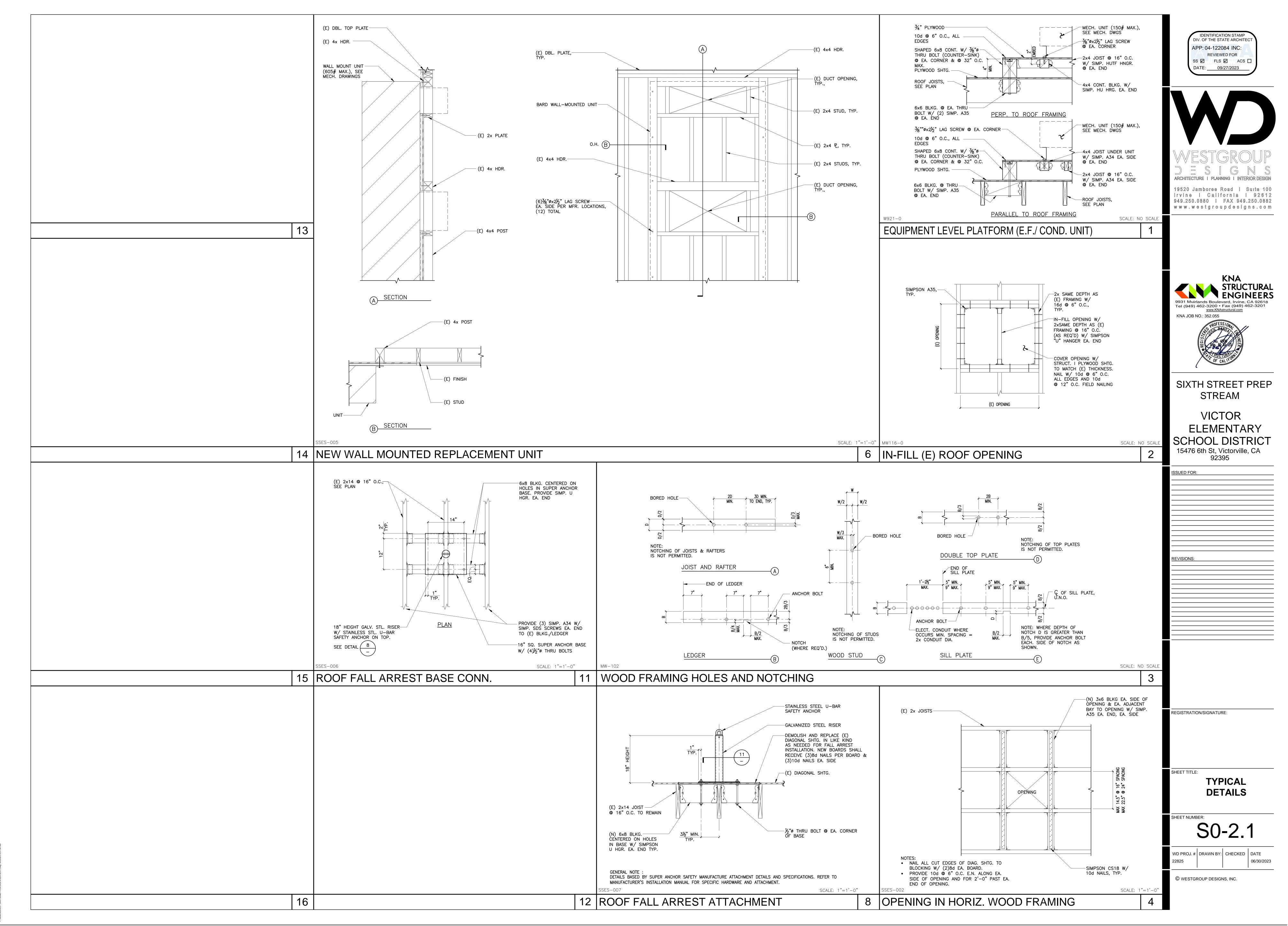
GENERAL NOTES

SHEET NUMBER:

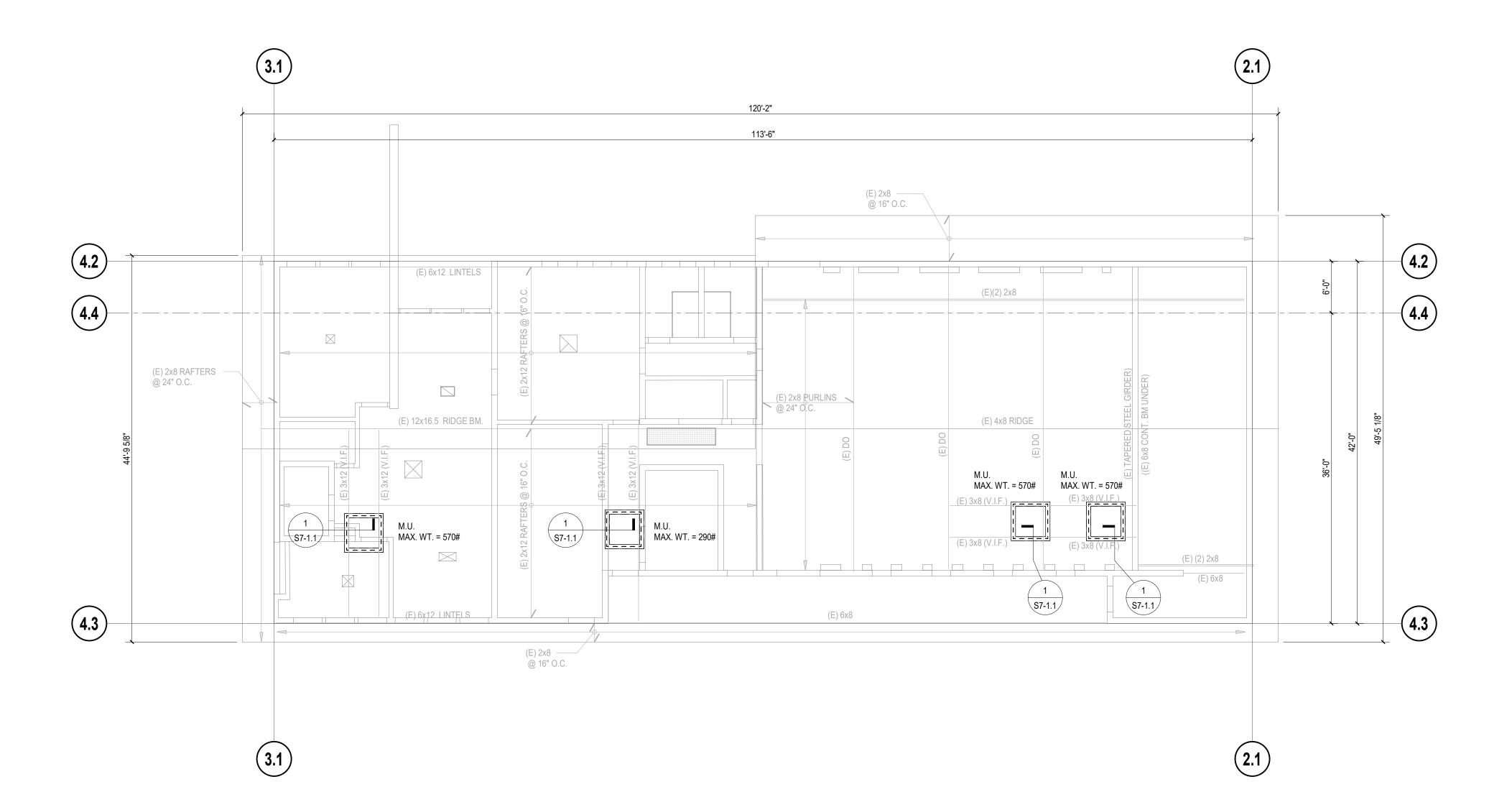
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ROOF FRAMING PLAN - MULTI-PURPOSE



ROOF FRAMING PLAN NOTES

1. SEE SHEETS S0-1.1 THROUGH S0-2.1 FOR GENERAL NOTES AND TYPICAL DETAILS.

SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL/PARAPET ELEVATIONS.
 SEE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ROOF OPENINGS NOT SHOWN ON ROOF FRAMING PLANS. SEE DETAIL 4/S0-2.1 FOR TYPICAL OPENINGS, UNLESS NOTED OTHERWISE.

4. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.

5. PROVIDE 2" BY FULL DEPTH SOLID BLOCKING AT 8'-0" MAXIMUM FOR ROOF JOISTS OR RAFTERS MORE THAN 8" IN DEPTH. FOR ADDITIONAL INFORMATION SEE DETAIL.

6. "MU" DENOTES MECHANICAL UNIT. MAXIMUM ALLOWABLE WEIGHT IS SHOWN. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND WEIGHT OF MECHANICAL UNITS.

7. SAWN LUMBER HANGERS SHALL BE SIMPSON B (LB @ 2X FRMG) HANGERS, UNLESS NOTED OTHERWISE.

LEGEND

: INDICATES WOOD HEADER OVER OPENING BELOW.

: INDICATES SPAN OF JOISTS.

: INDICATES EXTENT OF JOISTS.

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APP: 04-122084 INC:

REVIEWED FOR

SS FLS ACS DATE: 09/27/2023



19520 Jamboree Road | Suite 100 Irvine | California | 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com





SIXTH STREET PREP STEAM

VICTOR ELEMENTARY SCHOOL DISTRICT

15476 6th St, Victorville, CA 92395

ISSUED FOR:

REGISTRATION/SIGNATURE:

SHEET TITLE

ROOF FRAMING PLAN -MULTI-PURPOSE

SHEET NUMBER:

S5-1.4

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