

HEARST ELEMENTARY SCHOOL NEW HVAC AND REROOFING 5301 CASE AVENUE, PLEASANTON, CA 94566 PLEASANTON UNIFIED SCHOOL DISTRICT

GENERAL NOTES

PRE-BID SITE VISIT

CONTRACTOR SHALL VISIT THE PROJECT AREA IN ORDER TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE PROJECT. THE CONTRACTOR MAY CONTACT THE ARCHITECT DURING THE BIDDING PHASE REGARDING CLARIFICATIONS AND PROJECT REQUIREMENTS.

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WIL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS

CONTRACTOR SHALL REIMBURSE THE OWNER FOR REPAIR AND REPLACEMENT, INCLUDING ARCHITECT'S FEES, FOR ANY DAMAGE CAUSED TO STRUCTURES, LANDSCAPE, SITE WORK, OR EXISTING SYSTEMS TO REMAIN, AS THE RESULT OF CONSTRUCTION OPERATIONS

EXISTING CONDITION

ALL EXISTING CONDITIONS ARE SHOWN BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND BUILDING DATA AT THE JOB SITE. ANY DISCREPANCIES REQUIRING MODIFICATION TO THE CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. NO MODIFICATIONS SHALL BE MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM THE ARCHITECT

CONTRACTOR'S EQUIPME

COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. SEE SITE PLAN FOR ADDITIONAL NOTES.

UTILITY SHUT-DOWNS AND CONNECTIO

ALL REQUIRED UTILITY SHUT DOWNS SHALL HAVE PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE. REQUEST SHALL BE SUBMITTED WITH ADEQUATE ADVANCE NOTICE PER PROJECT REQUIREMENTS.

THE OWNER/OPERATOR AND CONTRACTOR SHALL BE AWARE THAT BUILDING CONSTRUCTED PRIOR TO 1978 (OR THERE ABOUT) POSSIBILITY CONTAIN ASBESTOS IN SOME EXISTING CONSTRUCTION MATERIALS, AND WILL LIKELY BE ENCOUNTERED DURING ALTERATIONS OR REMODELING.

UNDER CALIFORNIA TITLE 8, THE OWNER AND CONTRACTOR BOTH HAVE RESPONSIBILITIES TO DETERMINE THE EXISTENCE OF ASBESTOS CONTAINING MATERIALS IN AREAS TO BE ALTERED OR REMODELED PRIOR TO COMMENCEMENT OF WORK AND TO TAKE APPROPRIATE MEASURES TO PROTECT PERSONNEL. CAL-OSHA HAS JURISDICTION OVER ASBESTOS RELATED WORK. ASBESTOS RELATED WORK SHALL BE DONE IN ACCORDANCE WITH CALIFORNIA GENERAL INDUSTRIAL SAFETY ORDERS, TITLE 8, SECTION 341.6 THROUGH 341.14. ASBESTOS IN THE WORK ENVIRONMENT IS REGULATED BY TITLE 8, SECTION 5208.

THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AND DISTRICT REGULATION 11-2-401.3 REQUIRES EVERY RENOVATION INVOLVING THE REMOVAL OF 100 SQ.FT., LN.FT, OR GREATER OF REGULATED ASBESTOS CONTAINING MATERIAL AND FOR EVERY DEMOLITION (EVEN WHEN NO ASBESTOS IS PRESENT), A NOTIFICATION MUST BE SENT TO THE BAAQMD AT LEAST 10 WORKING DAYS PRIOR TO COMMENCEMENT OF DEMOLITION / RENOVATION.

ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.

THESE DOCUMENTS DO NOT ADDRESS CONTAINMENT FOR EXISTING AREAS OF ASBESTOS WHICH MAY BE DISCOVERED DURING CONSTRUCTION. THE OWNER'S ABATEMENT SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR THE DETECTION, REMOVAL, AND THE DISPOSAL OF ANY EXISTING ASBESTOS MATERIAL. ARCHITECTURAL AND ENGINEERING FEES FOR ADDITIONAL DESIGN EFFORT TO OBTAIN STATE APPROVALS, AS WELL AS THE COST OF ANY REPAIRS, FOR DAMAGE CAUSED OR REPLACEMENT OF EXISTING SYSTEMS TO REMAIN, DUE TO WORK PERFORMED BY THE ASBESTOS ABATEMENT SUBCONTRACTOR, SHALL BE THE RESPONSIBILITY OF SAID SUBCONTRACTOR.

CONSTRUCTION SCHEDULING

CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOINING THE PROJECT, AND NOT PART OF THE PROJECT.

INTERIOR FINISHES

INTERIOR FINISHES AND ALL WALL COVERING MATERIAL SHALL CONFORM TO CCR TITLE 24, PART 2, CHAPTER 8.

PIPES, DUCTS AND CONDUIT - SUPPORT AND BRACING

PIPES, DUCTS, AND CONDUITS SHALL BE SUPPORTED AND BRACED PER THE SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS", OPM 0052-13 SEISMIC BRACING AND SUPPORT SYSTEMS.

DRILLED-IN EXPANSION ANCHORS

WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

TITLE 24 COMPLIANCE

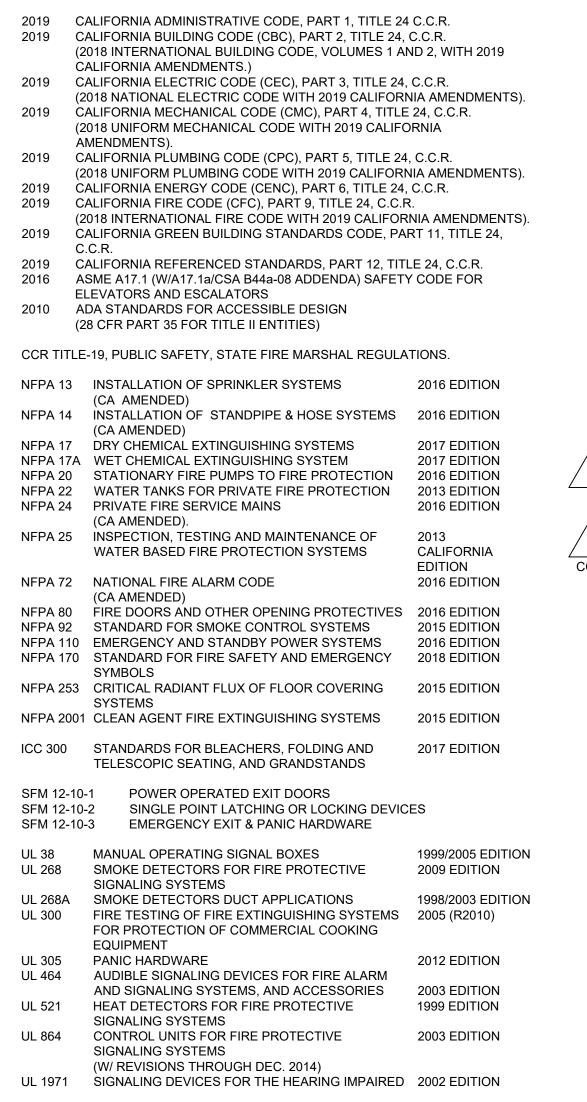
THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION. REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS (2019 CBC). SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.

ARREV/IATIONS

ABB	REVIATIONS	5	
REFER TO	CONSULTANT DRAWINGS FOR	ADDITIONA	L ABBREVIATIONS)
.F.F.	ABOVE FINISHED FLOOR ACCESS PANEL	LAM.	LAMINATE
.P. CT	ACOUSTIC TILE	LAV. M.B.	LAVATORY MACHINE BOLT
	ADJUSTABLE ALUMINUM	M.S.	MACHINE SCREW
.B.	ANCHOR BOLT	M.H. MFG.	MANHOLE MANUFACTURER
	APPROXIMATELY ARCHITECT	M.B.	MARKER BOARD
С	ASPHALTIC CONCRETE	MATL. MAX.	MATERIAL MAXIMUM
₽ .M.	AT BENCH MARK	MECH.	MECHANICAL
LKG.	BLOCKING	MTL. MIN.	METAL MINIMUM
D. .W.	BOARD BOTH WAYS	MISC.	MISCELLANEOUS
OT.	BOTTOM	MTD. (N)	MOUNTED NEW
LDG. .U.R.	BUILDING BUILT-UP ROOFING	NOM.	NOMINAL
	CATCH BASIN CEILING	N.I.C.	
EM.	CEMENT	N.T.S. NO. or #	NOT TO SCALE NUMBER
.C or O.C.	CENTER TO CENTER CENTERLINE	OCC.	OCCUPANT(CY)
ER. TILE	CERAMIC TILE	O.C. OPNG.	ON CENTER OPENING
	CLEANOUT CLEANOUT TO GRADE	OPP.	OPPOSITE
LR.	CLEAR	O.H. OFOS	OPPOSITE HAND OUTSIDE FACE OF STUD
.A.H.R.	CLEAR ALL HEART REDWOOD	O.H.W.S.	OVAL HEAD WOOD SCREW
.W.	COLD WATER	O.D.	OVERFLOW DRAIN and/or OUTSIDE DIAMETER
OL. OM.	COLUMN COMMON	O.F.C.I.	OWNER FURNISHED and
ONC.	CONCRETE	PR.	CONTRACTOR INSTALLED PAIR
ONST.		PART.	PARTITION
.H. .J.	CONSTRUCTION HEART CONSTRUCTION JOINT	PL d	PLATE PENNY (NAILS)
ONT.	CONTINUOUS	PLAS.	PLASTER
ontr. Tr.	CONTRACTOR COUNTER	PLYWD. P.V.C.	PLYWOOD POLY VINYL CHLORIDE
	COUNTER SUNK	P.T.	PRESSURE TREATED
ET. IA. or Ø	DETAIL DIAMETER	P.L. R. or RAD.	PROPERTY LINE
IM.	DIMENSION	R.W.L.	RAIN WATER LEADER
.A. R.	DISABLED ACCESS DOOR	RWD./R.W. REINF.	REDWOOD REINFORCING
.S.	DOWNSPOUT	REQ'D	REQUIRED
WG. .F.	DRAWING DRINKING FOUNTAIN	R.A.G. R.E.	RETURN AIR GRILLE RIM ELEVATION
	and/or DOUGLAS FIR	R.D.	ROOF DRAIN
	EACH EACH WAY	RM. R.O.	ROOM ROUGH OPENING
LEC.	ELECTRIC or ELECTRICAL	RND.	ROUND
L. or LEV.	ELEVATION	R.H.M.S. R.H.W.S.	ROUND HEAD METAL SCREW ROUND HEAD WOOD SCREW
NCL.	ENCLOSE and/or ENCLOSURE	SSD.	SEE STRUCTURAL DRAWINGS
Q. QUIP.	EQUAL EQUIPMENT	S.T.S.M.S.	SELF TAPPING SHEET METAL SCREW
E)	EXISTING	SHEATH.	SHEATHING
X. .J.	EXPANSION EXPANSION JOINT	S.M.	SHEET METAL
XP.	EXPOSED	S.O.V.	SHEET METAL SHEET METAL SCREW SHUT OFF VALVE
.O.C.	EXTERIOR FACE OF CONCRETE	SIM. S.C.	SIMILAR SOLID CORE
.O.M.	FACE OF MASONRY	SPEC.	SPECIFICATION
.O.S. .O.F.	FACE OF STUD FACE OF FINISH	SQ. S.F.	SQUARE SQUARE FEET
IN.		STAG.	STAGGERED
.F. .S.	FINISHED FLOOR FINISH SLAB	STD. S.S.	STANDARD STAINLESS STEEL
	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	STL.	STEEL
	FIRE HYDRANT	STOR. STRUCT.	STORAGE STRUCTURAL
	FLAT HEAD METAL SCREW	S.A.G.	SUPPLY AIR GRILLE
L. or FLR.	FLAT HEAD WOOD SCREW FLOOR	THRES. T&G	THRESHOLD TONGUE & GROOVE
.D.	FLOOR DRAIN FOOTING	T.J.	TOOLED JOINT
TG. ND.	FOUNDATION		TOP OF BEAM TOP OF CURB or CONCRETE
ALV.		T.O.S.	TOP OF STEEL or SHEATHING
i.I. iA.	GALVANIZED IRON GAUGE	T.O.W. TYP.	TOP OF WALK TYPICAL
L.	GLASS	U.O.N.	UNLESS OTHERWISE NOTED
RD.	GLUE-LAMINATED GRADE	U.O.S. V.T.R.	UNLESS OTHERWISE SHOWN VENT THROUGH ROOF
YP. BD. DW.	GYPSUM BOARD HARDWARE	VERT.	
Dvv. Т.	HEIGHT	V.G. V.I.F.	VERTICAL GRAIN VERIFY IN FIELD
.C.		V.C.T. V.W.C.	VINYL COMPOSITION TILE VINYL WALL COVERING
.m. Oriz.	HOLLOW METAL HORIZONTAL	V.W.C. V.O.I.P.	VOICE OVER INTERNET PROTOCOL
.В.	HOSE BIBB	W.C.	WATER CLOSET
D. ISUL.	INSIDE DIAMETER INSULATION	W.H. WP.	WATER HEATER WATERPROOF
IT.	INTERIOR	W.R.	WATER RESISTANT
IV. T	INVERT JOINT	W.W.M. W.D.	WELDED WIRE MESH WINDOW DIMENSION
.H.	JOIST HANGER KILN DRIED	W/	WITH
.D.		W/O WD.	WITHOUT WOOD



BUILDING CODES AND STANDARDS:



COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION WILL

BE ENFORCED.

SYMBOLS LEGEND

SECTION / EXTERIOR ELEVATION - SECTION IDENTIFICATION - SHEET WHERE SECTION IS DRAWN DETAIL

— SHEET WHERE DETAIL IS DRAWN \ A9.1 /⊷



∕ 3 |

(102A)

ζA,

(+8'-0")

ROOM IDENTIFICATION CLASSROOM ROOM NAME 102 ROOM NUMBER

- SPECIFIC NOTE
- DOOR DESIGNATION
- WINDOW DESIGNATION

ADDENDUM REVISION CLOUD AROUND REVISION

- CCD REVISION CLOUD AROUND REVISION
- (127)-----FINISH NUMBER SEE SPECS AND I.E. DWGS.
 - EQUIPMENT LETTER SEE EQUIPMENT SCHEDULE
 - CEILING HEIGHT
 - WALL TYPE
- MATCH LINE
- +8'-0" ELEV. HEIGHT
- /--- F.O.S., U.O.N.
- ---- FACE OF FINISH

COMPLIANT TO CURRENT CODE.

CAMPBELL, CALIFORNIA 95008 (408) 879-0600 (408) 377-6066 FAX

8 HARRIS COURT, SUITE A8 MONTEREY, CALIFORNIA 93940 (831) 218-1802

SAN JOSE, CA 95110 (408) 564-7925

PROJECT SUMMARY

MAJORITY OF BUILDINGS A, B AND ALL OF C, RE-SEAL OVER EXISTING LIQUID APPLIED ROOFING SYSTEM. REPLACE EXISTING ROOF DRAINS WITH NEW. REPLACE ALL HVAC UNITS WITH NEW INCLUDING THE EXISTING PLATFORMS. NEW THERMOSTATS WILL BE PROVIDED AND CONNECTED TO THE SITES EXISTING ENERGY MANAGEMENT SYSTEM. EXISTING FIRE ALARM SYSTEM WILL BE EVALUATED TO ENSURE THE SMOKE DETECTORS, SMOKE DAMPERS, Co MONITORS, ETC. ARE

DESIGN TEAM

SUGIMURA FINNEY ARCHITECTS 2155 SOUTH BASCOM AVENUE SUITE 200

ATTN: MARK FINNEY MARK@SUGIMURA.COM

MECHANICAL AND PLUMBING ENGINEER CYPRESS ENGINEERING GROUP

ELECTRICAL AND FIRE ALARM ENGINEER AURUM CONSULTING ENGINEERS 1798 TECHNOLOGY DRIVE, SUITE 242

DRAWING INDEX

T1 TITLE SHEET

ARCHITECTURAL A0.2 SITE PLAN

- A4.1 DEMOLITION & NEW ROOF PLANS BLDG A & B NORTH A4.2 DEMOLITION ROOF PLAN - BLDG B NORTHEAST
- A4.3 NEW ROOF PLAN BLDG B NORTHEAST A4.4 DEMOLITION & NEW ROOF PLANS - BLDG B SOUTH A4.5 DEMOLITION ROOF PLAN - BLDG C
- A4.6 NEW ROOF PLAN BLDG C A9.1 TYPICAL DETAILS

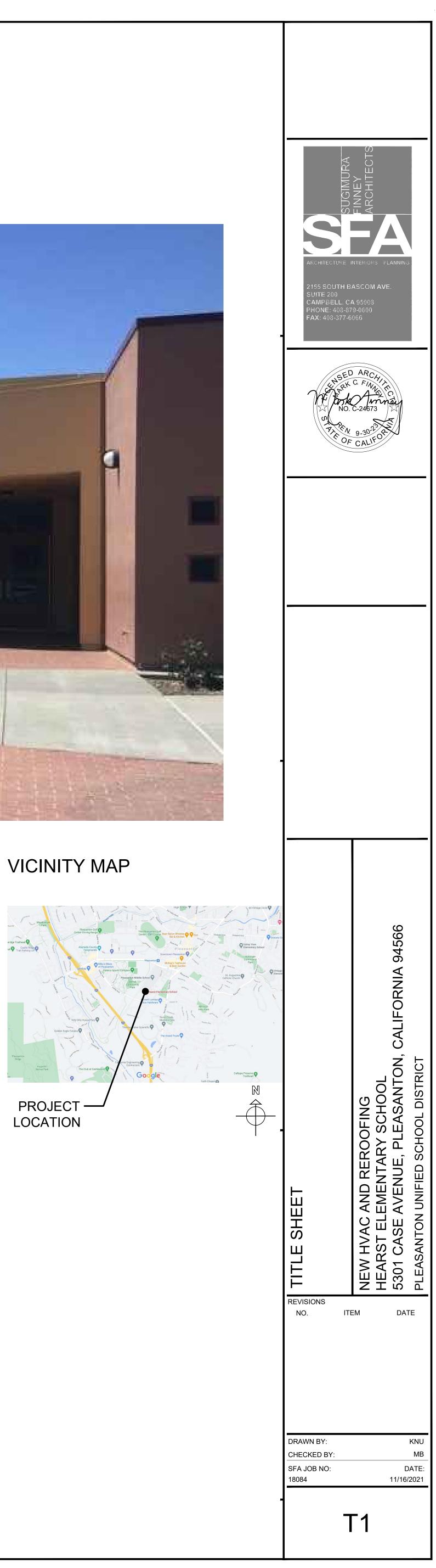
MECHANICAL / PLUMBING

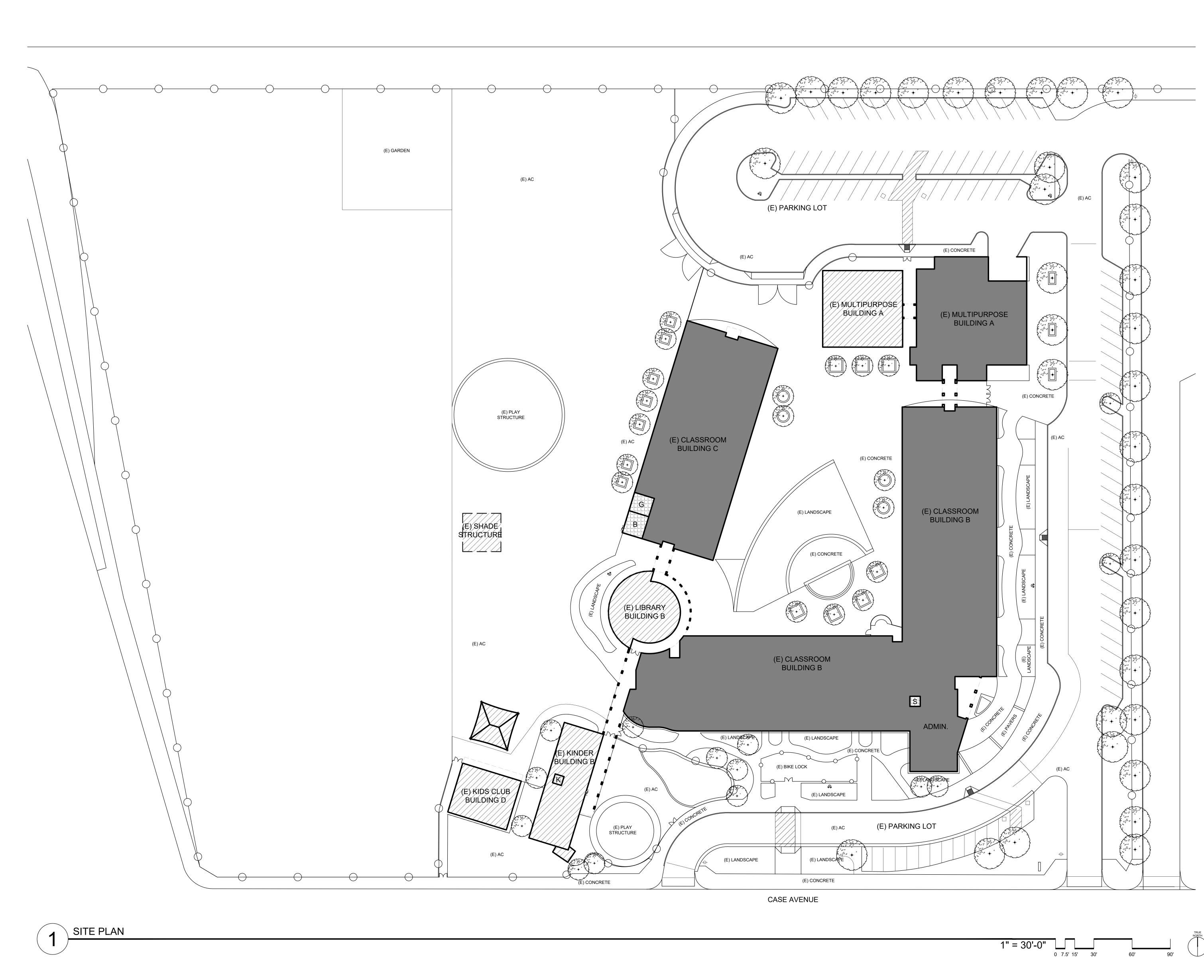
- MP0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES MECHANICAL & PLUMBING MP0.2 SCHEDULES - MECHANICAL & PLUMBING
- MP3.1 DEMOLITION ROOF PLANS BUILDINGS A & B SOUTH -MECHANICAL & PLUMBING
- MP3.2 DEMOLITION ROOF PLANS BUILDINGS B EAST & C -**MECHANICAL & PLUMBING**
- MP3.3 NEW ROOF PLANS BUILDINGS A & B SOUTH MECHANICAL & PLUMBING MP3.4 NEW ROOF PLANS - BUILDINGS B EAST & C - MECHANICAL & PI UMBING
- MP5.1 MECHANICAL CONTROLS MP6.1 DETAILS - MECHANICAL & PLUMBING
- MP7.1 BUILDING A & B SOUTH MECHANICAL / TAB WORK MP7.2 BUILDINGS B EAST & C - MECHANICAL / TAB WORK MP8.1 TITLE 24 DOCUMENTS - MECHANICAL MP8.2 TITLE 24 DOCUMENTS - MECHANICAL

ELECTRICAL

- E0.1 SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, EQUIPMENT ANCHORAGE, NOTES & SHEET INDEX
- E1.1 ELECTRICAL DETAILS E2.1 ELECTRICAL SITE PLAN
- E3.1 PARTIAL ELECTRICAL DEMOLITION PLAN E3.2 PARTIAL ELECTRICAL DEMOLITION PLAN
- E4.1 PARTIAL ELECTRICAL ROOF PLAN E4.2 PARTIAL ELECTRICAL ROOF PLAN
- E4.3 PARTIAL POWER PLAN E4.4 PARTIAL POWER PLAN
- FIRE ALARM
- FA0.1 FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST BATTERY CALCULATION, OPERATIONAL MATRIX, NOTES & FIRE ALARM RISER DIAGRAM
- FA4.1 PARTIAL FIRE ALARM PLAN FA4.2 PARTIAL FIRE ALARM PLAN

SHEET TOTAL = 32

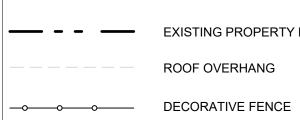




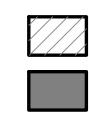
GENERAL NOTES

A. REFER TO MECHANICAL, ELECTRICAL AND FIRE ALARM DRAWINGS FOR EXTENT OF MECHANICAL, ELECTRICAL AND MECHANICAL WORK.

GRAPHIC KEY

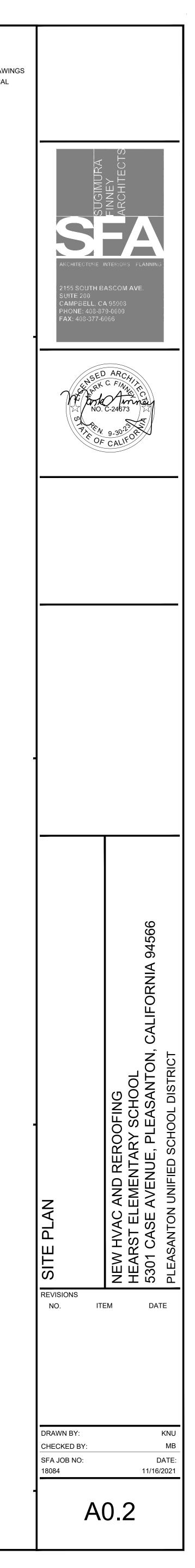


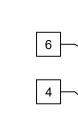
EXISTING PROPERTY LINE ROOF OVERHANG

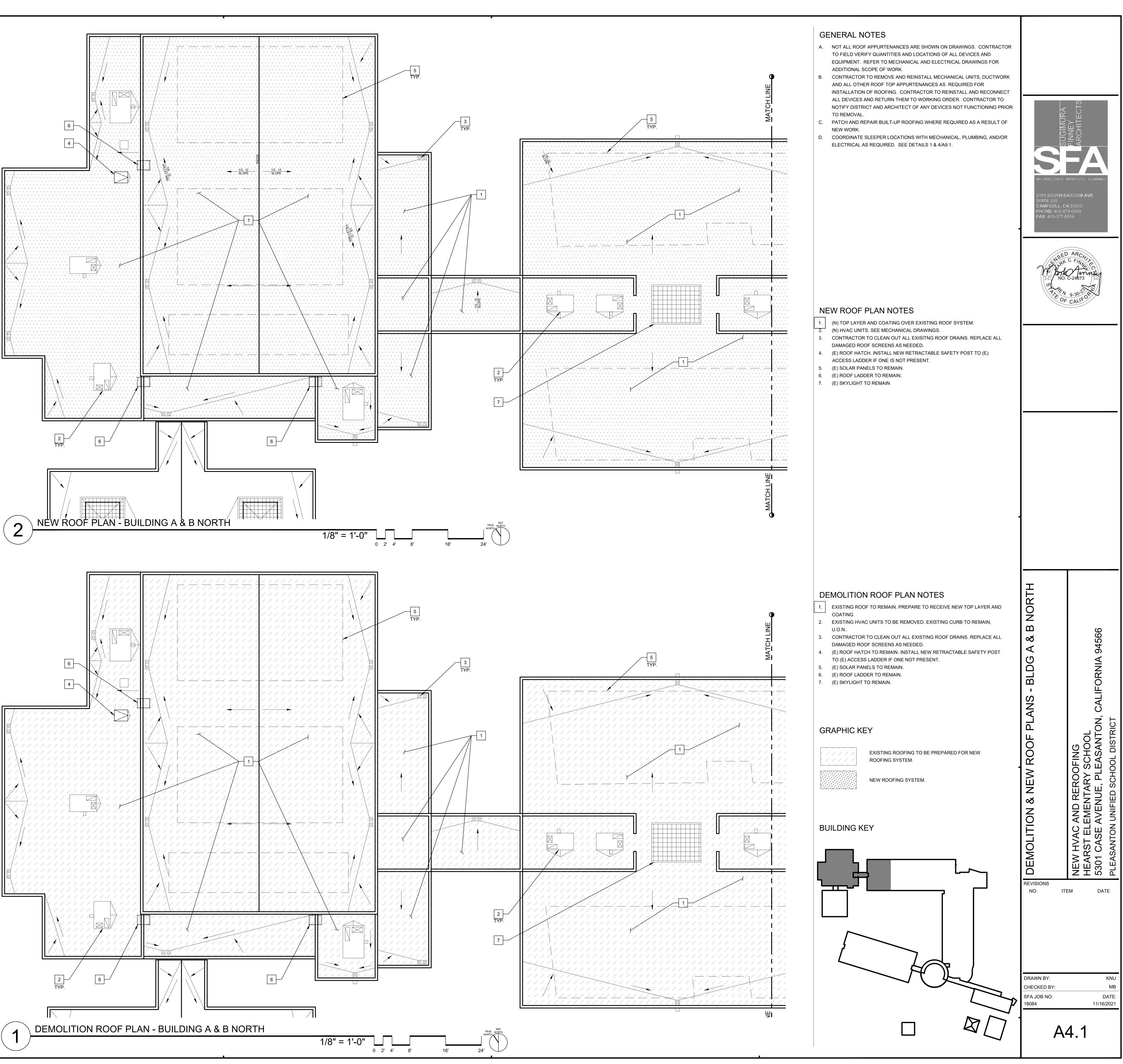


SCOPE OF WORK

EXISTING BUILDING

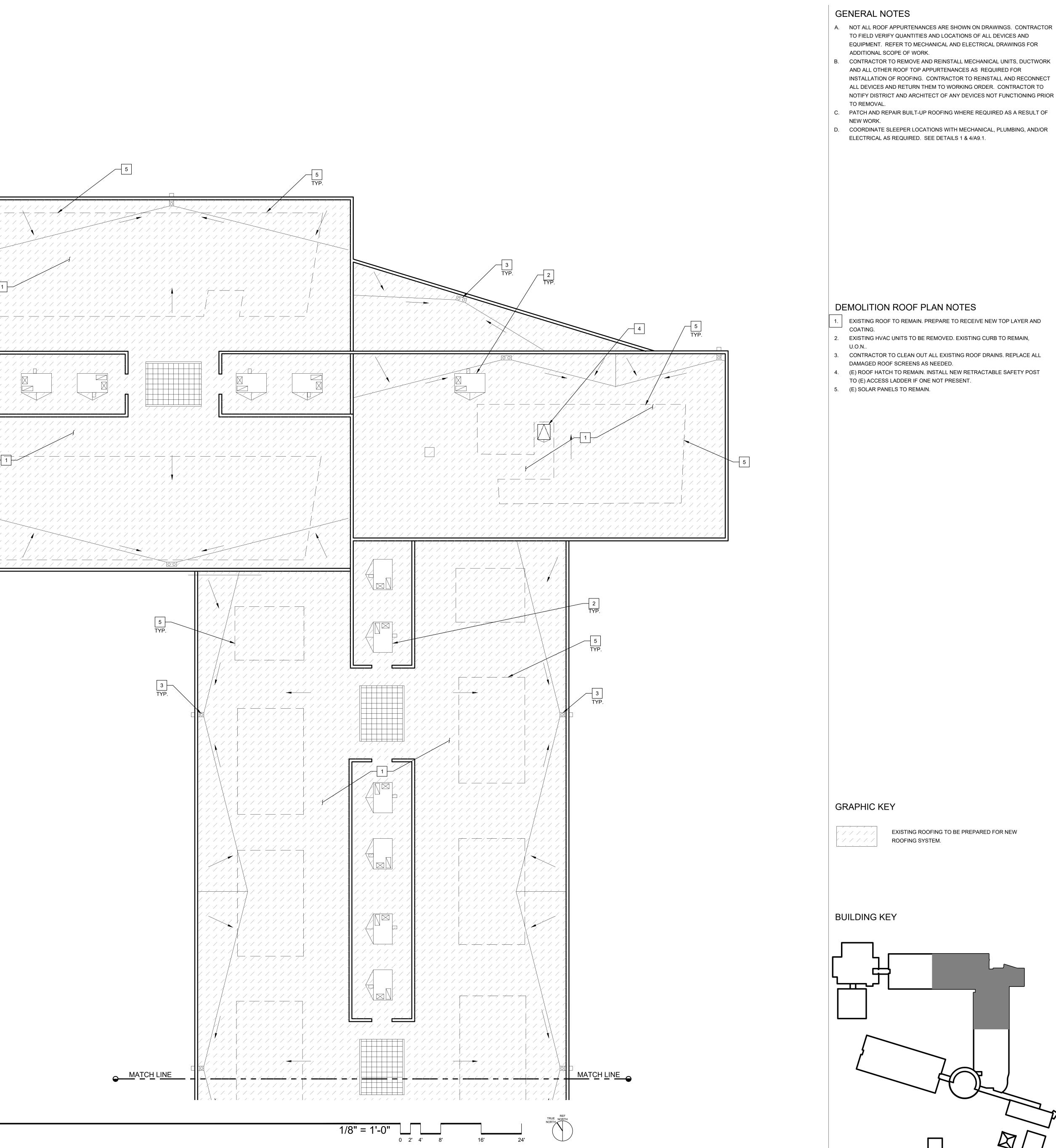


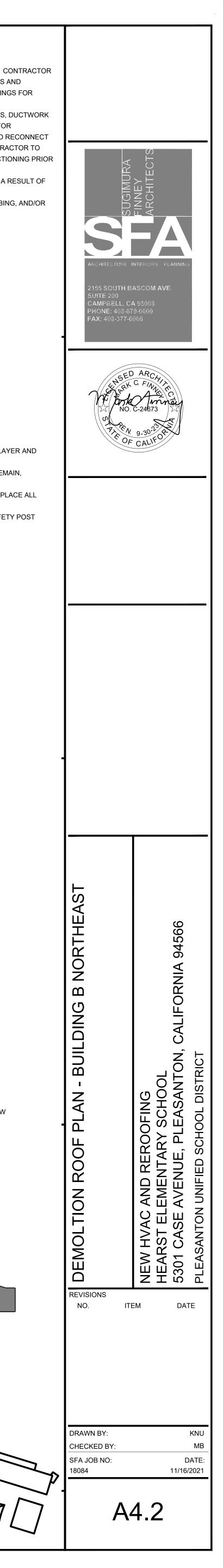


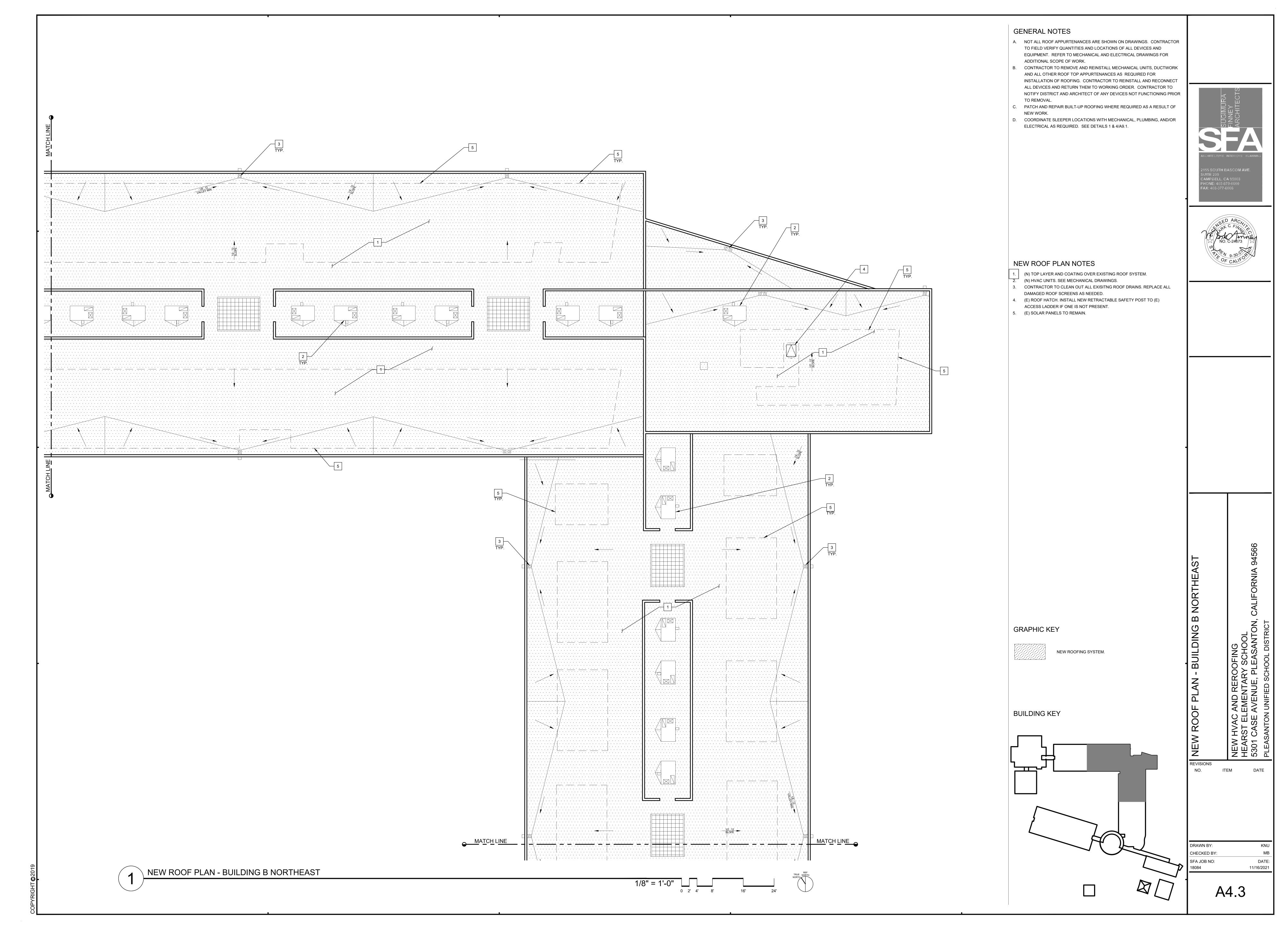


	TYP.	
		$\boxed{1}$
COPYRIGHI ©2019	DEMOLITION ROOF PLAN - BUILDING B NORTHEAST	

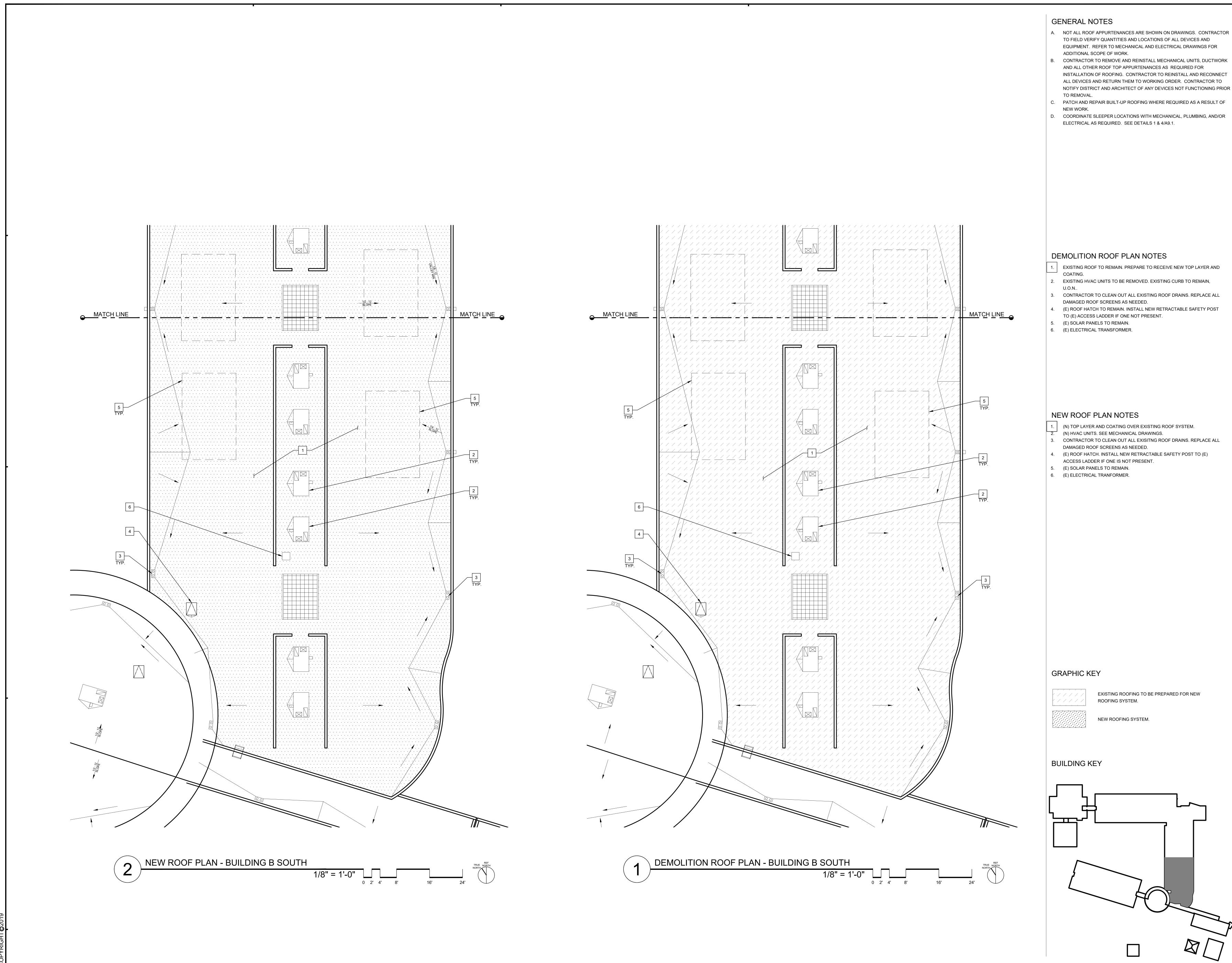
4 - Hearst ES Reroofing and HVAC Replacement\02 Drawings\00 Working Set\Plot\20084_A1.X~A5.X.dwg, 11/16/203

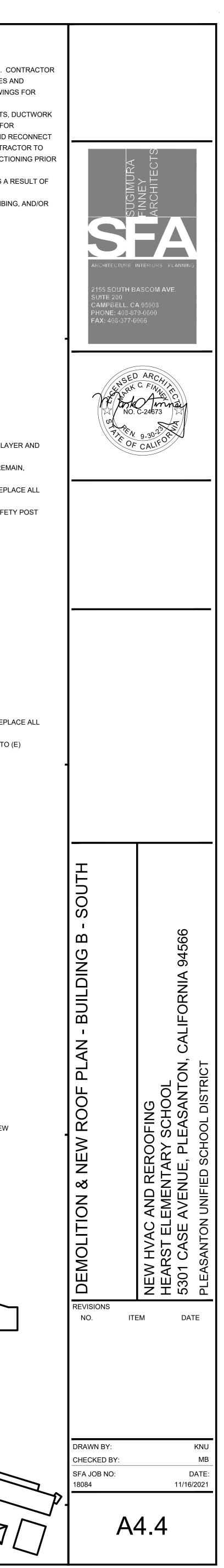


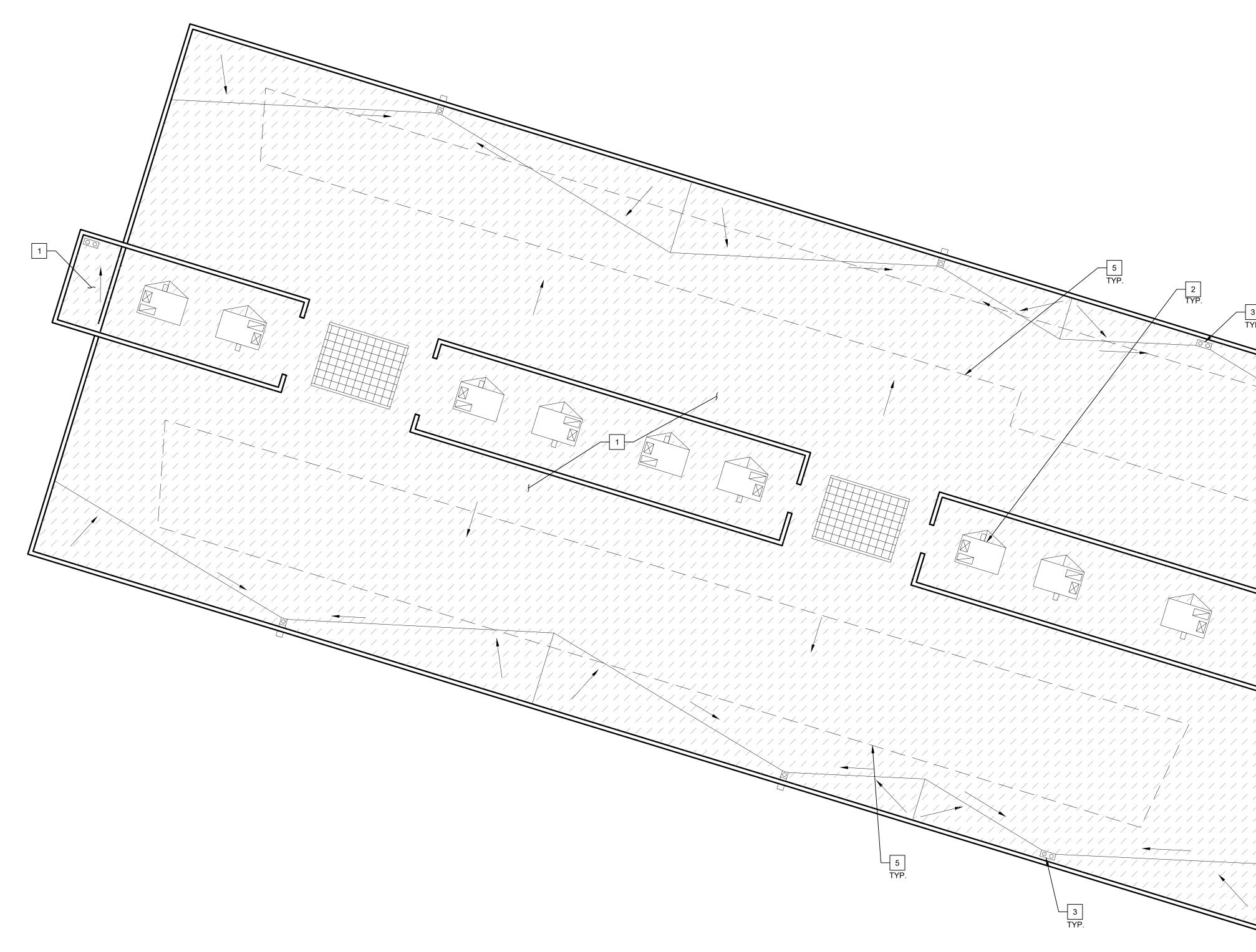




4 - Hearst ES Reroofing and HVAC Replacement\02 Drawings\00 Working Set\Plot\20084_A1.X~A5.X.dwg, 11/16/20





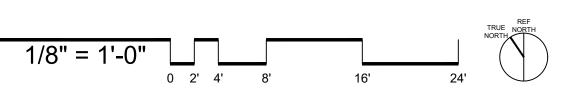




GENERAL NOTES

- A. NOT ALL ROOF APPURTENANCES ARE SHOWN ON DRAWINGS. CONTRACTOR TO FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL DEVICES AND EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- B. CONTRACTOR TO REMOVE AND REINSTALL MECHANICAL UNITS, DUCTWORK AND ALL OTHER ROOF TOP APPURTENANCES AS REQUIRED FOR INSTALLATION OF ROOFING. CONTRACTOR TO REINSTALL AND RECONNECT ALL DEVICES AND RETURN THEM TO WORKING ORDER. CONTRACTOR TO NOTIFY DISTRICT AND ARCHITECT OF ANY DEVICES NOT FUNCTIONING PRIOR TO REMOVAL.
- C. PATCH AND REPAIR BUILT-UP ROOFING WHERE REQUIRED AS A RESULT OF NEW WORK.
- D. COORDINATE SLEEPER LOCATIONS WITH MECHANICAL, PLUMBING, AND/OR ELECTRICAL AS REQUIRED. SEE DETAILS 1 & 4/A9.1

_/ / / / / / / 4



DEMOLITION ROOF PLAN NOTES

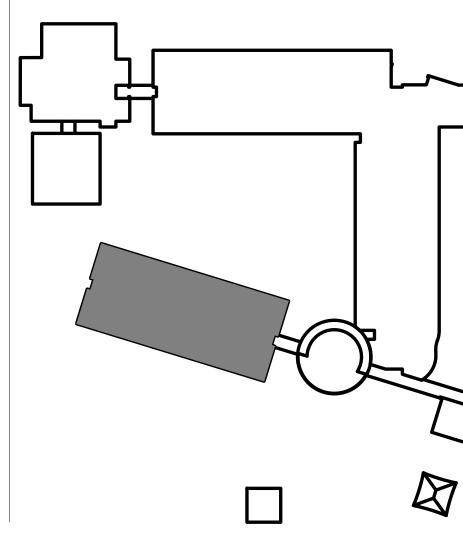
- 1. EXISTING ROOF TO REMAIN. PREPARE TO RECEIVE NEW TOP LAYER AND COATING.
- 2. EXISTING HVAC UNITS TO BE REMOVED. EXISTING CURB TO REMAIN, U.O.N..
- 3. CONTRACTOR TO CLEAN OUT ALL EXISTING ROOF DRAINS. REPLACE ALL DAMAGED ROOF SCREENS AS NEEDED. 4. (E) ROOF HATCH TO REMAIN. INSTALL NEW RETRACTABLE SAFETY POST
- TO (E) ACCESS LADDER IF ONE IS NOT PRESENT. 5. (E) SOLAR PANELS TO REMAIN.
- 6. (E) ELECTRICAL TRANSFORMER.

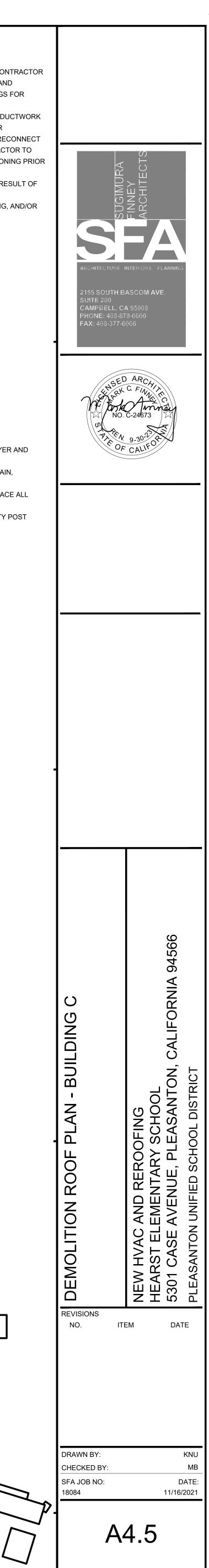
GRAPHIC KEY

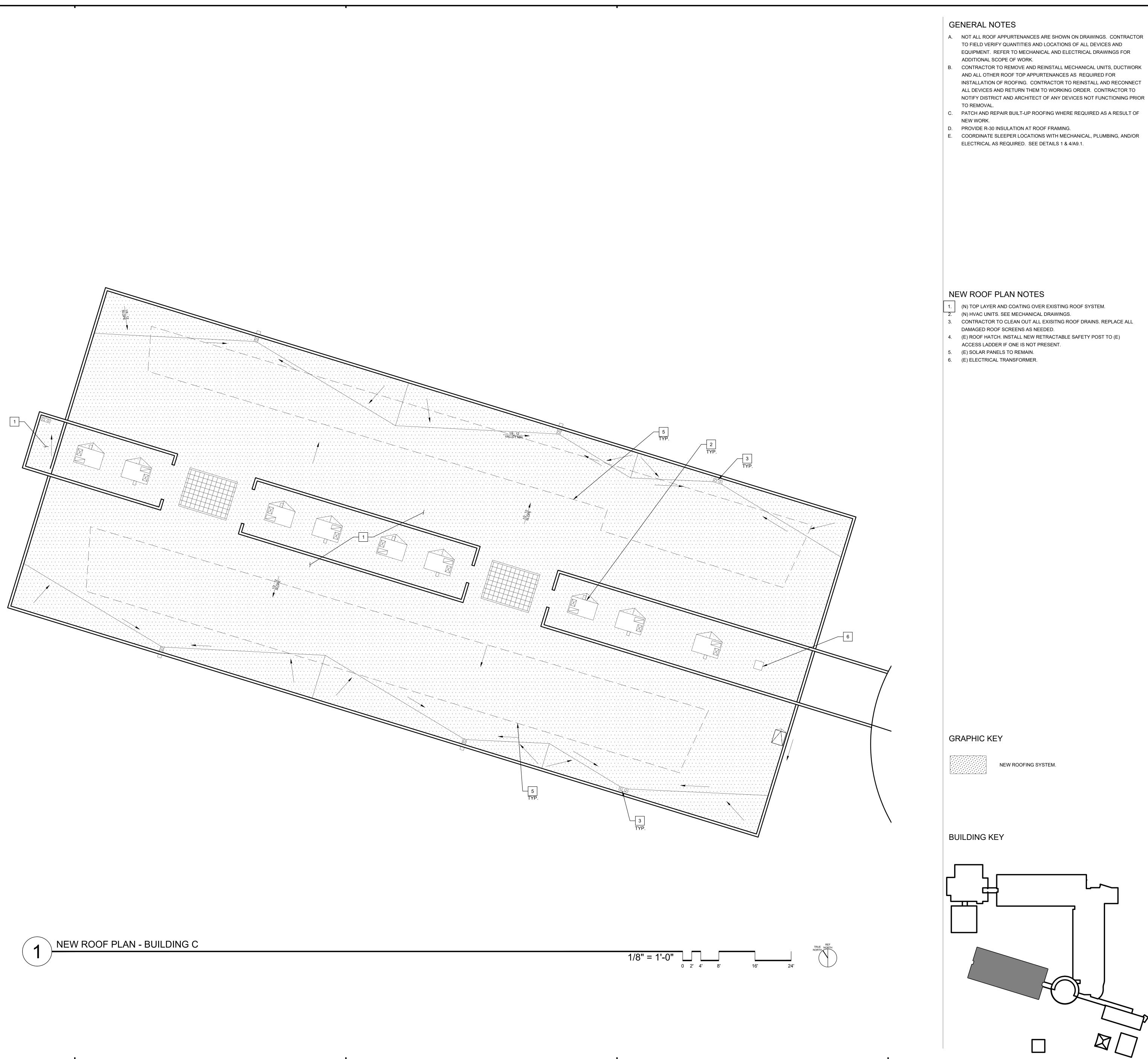


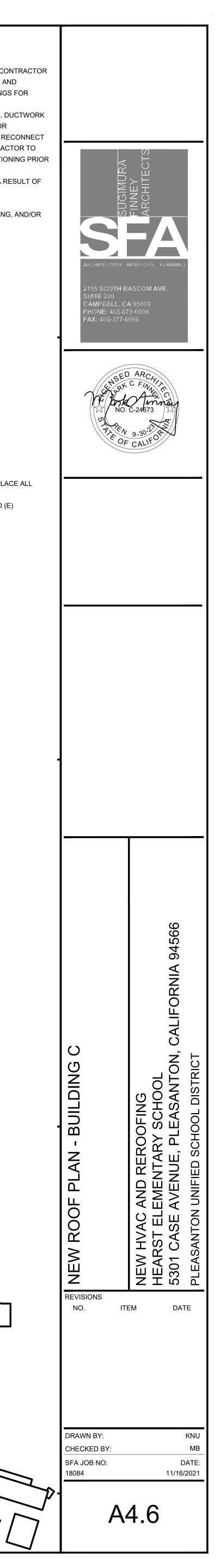
EXISTING ROOFING TO BE PREPARED FOR NEW ROOFING SYSTEM.

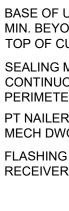
BUILDING KEY

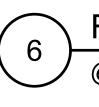


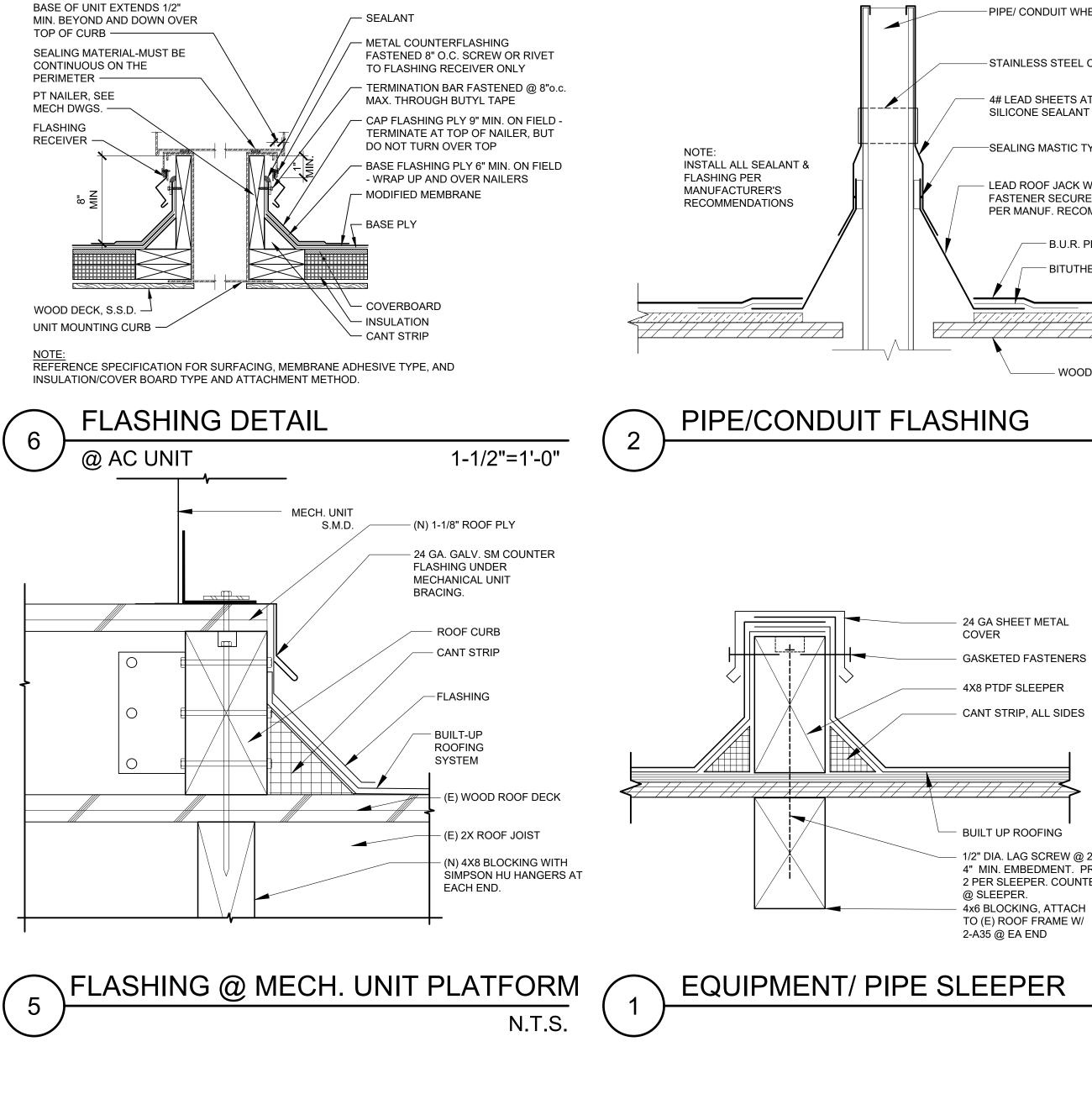


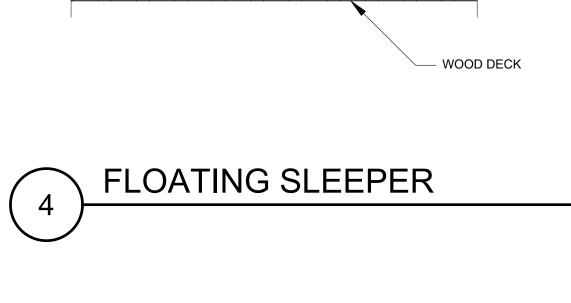


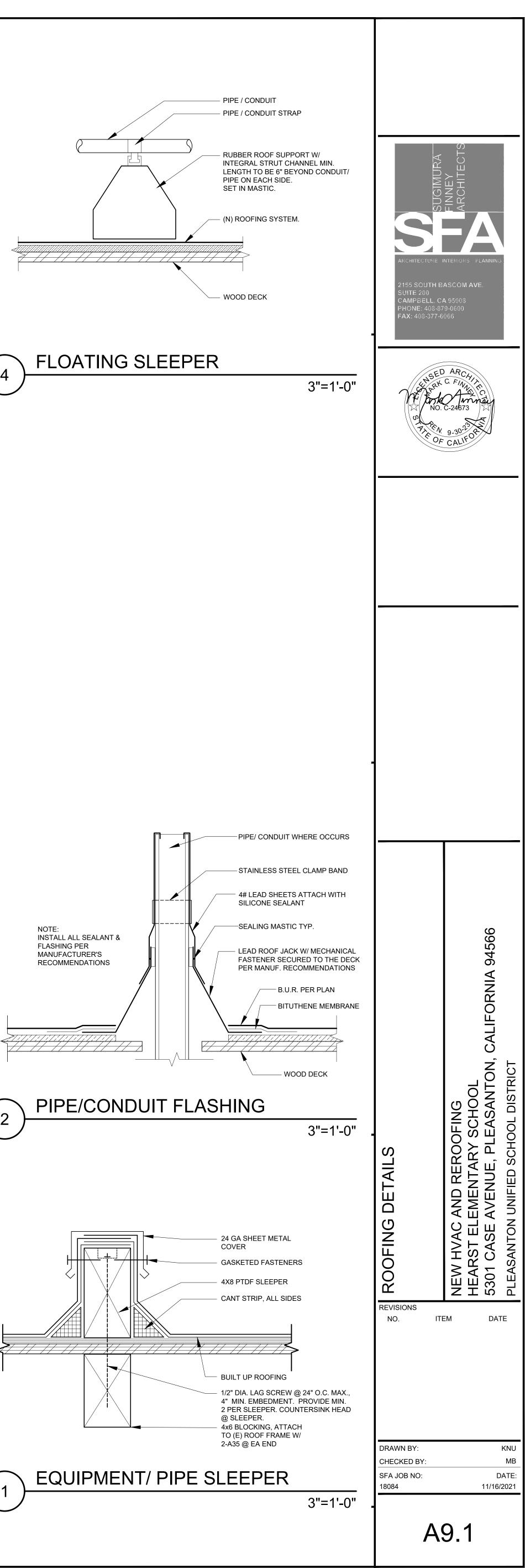












 1
 THE INTENT OF THE CONTRACT DOCUME APPROVED BY DSA F THE SEISMIC SUPPO FOR CONFORMANCE ALL MECHANICAL AN CRITERIA FROM CHA WHERE ANCHORAGE ENGINEER AND THE NO DEMOLITION SHA
ALL MECHANICAL, PLUMB DOCUMENTS. THE FOLLOV 2019 CBC, SECTIONS 1617 1. ALL PERMANENT EQ 2. TEMPORARY, MOVAE ELECTRICITY, GAS O HAVING A FLEXIBLE 3. TEMPORARY, MOVAE ADJACENT FLOOR O THE FOLLOWING MECHAN COMPLIANCE WITH THE R ASSOCIATED DUCTWORK A. COMPONENTS WEIG THAT DIRECTLY SUP B. COMPONENTS WEIG FROM A ROOF OR FL THE ANCHORAGE OF ALL GENERAL RESPONSIBLE O
THAT ALL COMPONENTS / PIPING, DUCTWORK, AND SECTION 13.3 AS DEFINED THE METHOD OF SHOWIN AND ATTACHMENTS ARE INSTALLATION GUIDE OR SYSTEMS. THE STRUCTUF MECHANICAL PIPING (MP) MP MD PP MP MD X PP

•	ABBREVIATIONS		LIST OF GOVERNING CODES
	& AND EQ EQUAL OD "F DEGREES FARENHEIT EQUIP EQUIPNENT PD AAV AUTOMATIC AR VENT ESP EXTERNAL STATIC PRESSURE PH AC AIR CONDITIONER EW ENTERING WATER PLF AD ACCESS DOOR EW ENTERING WATER TEMPERATURE PRV AD ACCESS DOOR EW ENTERING WATER TEMPERATURE PRV AL ACOUSTICALLY LINED FFIC FINISHED FLOOR REIN PT PLOOR DRAIN AL ACOUSTICALLY LINED FFIC FINISHED FLOOR REIN PT PAPROX APPROXIMATE RA APROX APROXIMATE FL FILXIBLE RA RAD BDD BACK FLOW PREVENTER FT FE FLOOR SINK RH BDD BACK FLOW PREVENTER FT FLOE RLI RL BDD BACK FLOW PREVENTER FT FLOE RL RH BDD BACK FLOW PREVENTER FT FLOE RL	PRESSURE DROP PHASE POUNDS PER LINEAR FOOT POINT OF CONNECTION PRESSURE REDUCING VALVE) POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE) PRESSURE/TEMPERATURE QUANTITY RETURN AIR RETURN AIR RETURN AIR DAMPER RELATIVE HUMIDITY REFRIGERANT LIQUID ROOM REVOLUTIONS PER MINUTE REFRIGERANT SUCTION RELIEF VALVE SUPPLY AIR SENSIBLE COOLING SEASONAL ENERGY EFFICIENCY RATIO SMOKE DAMPER	 LIST OF GOVERNING CODES POID BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, ITTLE 24, C.C.R. CALI-ORNIA BUILDING CODE (CGE), PART 1, ITTLE 24, C.C.R. CALI-ORNIA BECHARIAL CODE (CGC), PART 1, ITTLE 24, C.C.R. CALI-ORNIA BECHARIAL CODE (CGC), PART 1, ITTLE 24, C.C.R. CALI-ORNIA BECHARICA CODE (CGC), PART 1, ITTLE 24, C.C.R. CALI-ORNIA BECHARICA CODE (CGC), PART 1, ITTLE 24, C.C.R. CALI-ORNIA BECHARICA CODE (CGC), PART 1, ITTLE 24, C.C.R. CALI-ORNIA BECHARICA CODE (CGC), PART 1, ITTLE 24, C.C.R. CALI-ORNIA BECHARICA CODE (CGC), PART 1, ITTLE 24, C.C.R. CALI-ORNIA BERBARICO (CODE), CALIFORNIA BERBARIAL REGULATIONS. ALIF COTON INFORMED'S PERIOS REGION CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342. LISS STON MUBERPS BELICI MARGE SECTION 4-3368. SPECIAL INSPECTION PER SECTION 4-336. SOVERNAUCON SECTION SECTION 4-336. SOVERNAUCON SECTION SECTION 4-336. SOVERNAUCON SECTION SECTION SECTION 4-336. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-336. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-334.
DSA GENERAL NOTES	SYMBOL LEGEND		GENERAL NOTES
THE CONTRACT DOCUMENTS IS TO MODERNIZE THE SCHOOL'S CAMPUS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CUMENTS A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBJUITED TO AND DSA BEFORE PROCEEDING WITH THE WORK. WHEN AND ACKINGAGE OF THE EXPINIENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD NACE WITH APPROPRIATE BUILDING CODES (SEE) ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD NACE WITH APPROPRIATE BUILDING CODES (SEE) ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD NACE WITH APPROPRIATE BUILDING CODES (SEE) ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD NACE WITH APPROPRIATE BUILDING CODES (SEE) ON THESE DRAWINGS HAVE BEEN APPROVED THE CAMPARY THE ON APPLIE THE CALFFORMA BUILDING CODE (SEE) 2019. MAGE DRAW SENT THE DATABASE OF THE DATABASE OF THE STRUCTURAL THE FIELD REPRESED RATIVE OF THE DATABASE OF THE STRUCTURAL THE FIELD REPRESED RATIVE OF THE DATABASE OF THE STRUCTURAL THE FIELD REPRESED RATIVE OF THE DATABASE OF THE STRUCTURAL THE FIELD REPRESED RATIVE OF THE DATABASE OF THE STRUCTURAL THE FIELD REPRESED RATIVE OF THE DATABASE OF THE DATABASE OF THE STRUCTURAL THE FIELD REPRESED RATIVE OF THE DATABASE OF THE STRUCTURAL THE FIELD REPRESED RATIVE OF THE DATABASE OF THE STRUCTURAL THE STRUCTURE OF THE DATABASE OF THE CHARGE OF THE STRUCTURAL THE STRUCTURE OF THE DATABASE OF THE CHARGE OF THE STRUCTURE DATABASE OF THE DATABASE OF THE CHARGE OF THE STRUCTURE THE STRUCTURE OF THE DATABASE OF THE CHARGE OF THE STRUCTURE OF THE DATABASE OF THE STRUCTURE OF THE STRU	SINGLE LINE SYMBOL DOUBLE LINE SYMBOL DOUBLE LINE SYMBOL DOUBLE LINE SYMBOL DOUBLE LINE SYMBOL Image: Symbol in the	DESCRIPTION SECTION AT SUPPLY AIR OR MAKE-UP AIR DUCT UP SECTION AT RETURN AIR OR COMBUSTION AIR DUCT UP SECTION AT EXHAUST AIR OR RELIEF AIR DUCT DOWN RETURN AIR DUCT DOWN RETURN AIR DUCT DOWN ROUND DUCT UP - SUPPLY, RETURN OR EXHAUST ROUND DUCT DOWN - SUPPLY, RETURN OR EXHAUST ROUND DUCT DOWN - SUPPLY, RETURN OR EXHAUST CEILING DIFFUSER - ONE, TWO, THREE AND FOUR WAY THROW CEILING - RETURN AND EXHAUST REGISTERS SIDEWALL - SUPPLY DIFFUSER, REGISTERS SIDEWALL - SUPPLY DIFFUSER, REGISTERS MANUAL BALANCE DAMPER WITH DUCT ACCESS DOOR MOTORIZED BALANCE DAMPER WITH DUCT ACCESS DOOR	 CONTRACTOR SHALL VISIT THE SITE PROR TO SUBMISSION OF FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETIO OF THE INSTRUCTIONS AND REQURREMENTS FOR INSTALLATION SHALL BE DETERMINED PROR TO BID DATE. CONTRACTOR SHALL NOT THE SUBMITTAL OF THE CONTRACTORS BID DEMONSTRATES THE CONTRACTORS AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED. CONTRACTOR SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL SYSTEMS. THE DRAWINGS INCLUDED IN THIS SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORDS DESIGN INTENT FOR ALL ECONTRACTOR SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL SYSTEMS. THE DRAWINGS INCLUDED IN THIS SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORDS DESIGN INTENT FOR ALL ECONTRACTOR SHALL BE CONTRACTOR TO CONTRACTOR. EDUINMENT AND RELATED PRING TEC. INNOVAUL, POWER NEEDS, CONTROLS AND OTHER CONNECTIONS SHALL BE COORDINATED VERIFIED, AND DETERMINED IN THE FIELD. CONTRACTORS SH INSTALL ALL EOURIMENT AND ROUTE PIPING TO CONTRACTOR. EDUINMENT AND ROUTE PIPING TECT. INNOVAUL, POWER NEEDS, CONTROLS AND OTHER CONNECTIONS SHALL BE COORDINATED. VERIFIED, AND DETERMINED IN THE FIELD. CONTRACTOR SH INSTALL ALL EOURIMENT AND ROUTE PIPING INCLOATIONS WHICH MEET CODE REQUIREMENTS AND DO NOT INTERFERE WITH ANY SULDING STRUCTURE UTULINES, OF THER TOJACE DURING TO THE ROUGHAIN. EDUICTWORK AND TEMS TO BE REMOVED ARE SHOWN HATCHED. SEEL LEGEND. COORDINATE CLOSELY WITH INJ DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER BUDCTWORK AND TEBMING FOR THE ROUGHAIN. ALL EOURIMENT ELE CONNECTIONS PRING MOUNTING LOCATIONS ETC. CARE TO BE VERIFIED WITH OWNER'S REPRESENTATIVE AND EOUFINES SUPPLER PRIOR TO BERMING OF THE ROUGHAIN. ALL EOURIMENT ELE CONNECTIONS AND LEARLY LABELED AND DESTRICT STANDARDS AND ANDRES
ECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN THE REFERENCED NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND WORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS: WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL Y SUPPORT THE COMPONENT. WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED OR FLOOR OR HUNG FROM A WALL F ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN IBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY ENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.	90° RADIUS SPLIT- RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, XY PROPORTIONAL SPLIT 90° RECTANGULAR SPLIT- RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, XY PROPORTIONAL SPLIT TRANSITION - RECTANGULAR TO ROUND OR RECTANGULAR TO ROUND OR RECTANGULAR TO OVAL	ACOUSTICALLY LINED DUCT. DIMENSIONS ARE INSIDE REGISTER NECK SIZE AND TAG DESIGN CFM PANEL AT T-BAR CEILING	 LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. WHERE WORK HAS TO BE INSTALLED IN EXPOSED LOCATIONS, IT SHALL BE PAINTED TO MAT THE ADJACENT SURFACES OR PER ARCHITECT'S DIRECTION. 18. CONTRACTOR SHALL PREPARE AND SUBMIT THE CALIFORNIA ENERGY COMMISSION TITLE 24 CERTIFICATE OF ACCEPTANCE FORMS RELATED TO INSTALLI EQUIPMENT AND SYSTEMS. 19. SAFETY: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. 20. CONTRACTOR'S EQUIPMENT: COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION C CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. COORDINATE WITH OWNER FOR LOCATION AND PROCEDURES. 21. ALL BUILDING MATERIALS MUST BE ASBESTOS FREE. 22. CONSTRUCTION SCHEDULING: CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOIN THE PROJECT, AND NOT PART OF THE PROJECT.
PING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 FINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26. IOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD O'M FOR 2013 BC OR LATER), COPIES OF THE BRACING SYSTEM ARE AS NOTED BELOW. WHEN BRACING OF CR MANUAL SHALL BE AVAILABLE ON THE JOSHTE PRIOR TO THE STATIOT OF AND DURING THE HANGING THE DISTRIBUTION JCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACIC LOADS. S(MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):]PP - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.]PP - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.]PP - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.]PP - OPTION 1: DETAILED ON THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #00552-13, "B-LINE/TOLCO"	SYMBOL ABBRV. IDENTIFICATION SYMBOL ABBRV. SYMBOL ABBRV. IDENTIFICATION SYMBOL ABBRV. SYMBOL CAP P.O.C. P.O.C. CONT CONTINUATION CONT CONTINUATION INF LINE BREAK C C CIL CKV CHECK VALVE C CONCENTRIC & ECCENTRIC REDUCERS C Image: Concentric & ECCENTRIC REDUCERS C AD, AP ACCESS DOOR, ACCESS PANEL Image: Concentric & ECCENTRIC REDUCERS C AD, AP ACCESS DOOR, ACCESS PANEL Image: Concentric & ECCENTRIC REDUCERS C AD, AP ACCESS DOOR, ACCESS PANEL Image: Concentric & ECCENTRIC REDUCERS C AD, AP ACCESS DOOR, ACCESS PANEL Image: Concentric & ECCENTRIC REDUCERS C AD, AP ACCESS DOOR, ACCESS PANEL Image: Concentric & ECCENTRIC REDUCERS C AD, AP ACCESS DOOR, ACCESS PANEL Image: Concentric & ECCENTRIC REDUCERS C AD, AP ACCESS DOOR, ACCESS PANEL Image: Concentric & ECCENTRIC REDUCERS C AD, AP ACCESS DOOR, ACCESS PANEL Image: Concentric & ECCENTRIC REDUC	IDENTIFICATION POINT OF CONNECTION REMOVE EXISTING TEE DOWN 90 DOWN EQUIPMENT DESIGNATION TAG NUMBER	 TITLE 24 COMPLIANCE: THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE CO FREGULATIONS (2019 CBC), SHOULD ANY CONDITIONS BE DISCOVERED NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK DOES NOT COMPLY WITH 2019 CBC, A CONSTRUCTION CHANGE DOCUMENT OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFIYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK. MP0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL & PLUMBING MP1.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL & PLUMBING MP2.3 SCHEDULES - MECHANICAL & PLUMBING MP3.1 DEMOLITION ROOF PLANS - BUILDINGS & B EAST & C - MECHANICAL & PLUMBING MP3.2 DEMOLITION ROOF PLANS - BUILDINGS B EAST & C - MECHANICAL & PLUMBING MP3.3 NEW ROOF PLANS - BUILDINGS & B EAST & C - MECHANICAL & PLUMBING MP3.4 NEW ROOF PLANS - BUILDINGS B EAST & C - MECHANICAL & PLUMBING MP3.4 NEW ROOF PLANS - BUILDINGS B EAST & C - MECHANICAL & PLUMBING MP3.4 NEW ROOF PLANS - BUILDINGS B WORK MP3.1 DETAILS - MECHANICAL & PLUMBING MP3.1 NEW ROOF PLANS - BUILDINGS B EAST & C - MECHANICAL & PLUMBING MP3.1 NEW ROOF PLANS - BUILDINGS B WORK MP3.1 DETAILS - MECHANICAL / TAB WORK MP3.1 DETAILS - MECHANICAL / TAB WORK MP3.1 TITLE 24 DOCUMENTS - MECHANICAL / TAB WORK MP3.2 TITLE 24 DOCUMENTS - MECHANICAL
AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 FINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26. HOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 BC OR LATER), COPIES OF THE BRACING SYSTEM E OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION JCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. G (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):] PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.] PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0295-13, "UNISTRUT" OR	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	POINT OF CONNECTION REMOVE EXISTING TEE DOWN 90 DOWN EQUIPMENT DESIGNATION TAG NUMBER	 MP0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL & PLUMBING MP0.2 SCHEDULES - MECHANICAL & PLUMBING MP3.1 DEMOLITION ROOF PLANS - BUILDINGS A & B SOUTH - MECHANICAL & PLUMBING MP3.2 DEMOLITION ROOF PLANS - BUILDINGS B EAST & C - MECHANICAL & PLUMBING MP3.3 NEW ROOF PLANS - BUILDINGS A & B SOUTH - MECHANICAL & PLUMBING MP3.4 NEW ROOF PLANS - BUILDINGS B EAST & C - MECHANICAL & PLUMBING MP5.1 MECHANICAL CONTROLS MP6.1 DETAILS - MECHANICAL & PLUMBING MP7.1 BUILDING A & B SOUTH - MECHANICAL / TAB WORK MP7.2 BUILDING S B EAST & C - MECHANICAL / TAB WORK MP8.1 TITLE 24 DOCUMENTS - MECHANICAL

SYMBOL	ABBRV.	IDENTIFICATION	DRAWING INDEX
•	P.O.C.	POINT OF CONNECTION	
///////////////////////////////////////		REMOVE EXISTING	MP0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL & PLUMBING MP0.2 SCHEDULES - MECHANICAL & PLUMBING
		TEE DOWN	MP3.1 DEMOLITION ROOF PLANS - BUILDINGS A & B SOUTH - MECHANICAL & PLUMBING
		90 DOWN	MP3.2 DEMOLITION ROOF PLANS - BUILDINGS B EAST & C - MECHANICAL & PLUMBING MP3.3 NEW ROOF PLANS - BUILDINGS A & B SOUTH - MECHANICAL & PLUMBING
FC		- EQUIPMENT DESIGNATION	 MP3.4 NEW ROOF PLANS - BUILDINGS B EAST & C - MECHANICAL & PLUMBING MP5.1 MECHANICAL CONTROLS MP6.1 DETAILS - MECHANICAL & PLUMBING MP7.1 BUILDING A & B SOUTH - MECHANICAL / TAB WORK
A-1		— TAG NUMBER	MP7.2 BUILDING BUILDINGS B EAST & C - MECHANICAL / TAB WORK MP8.1 TITLE 24 DOCUMENTS - MECHANICAL MP8.2 TITLE 24 DOCUMENTS - MECHANICAL
1 M2.1]	SECTION 1 / SHEET M2.1	



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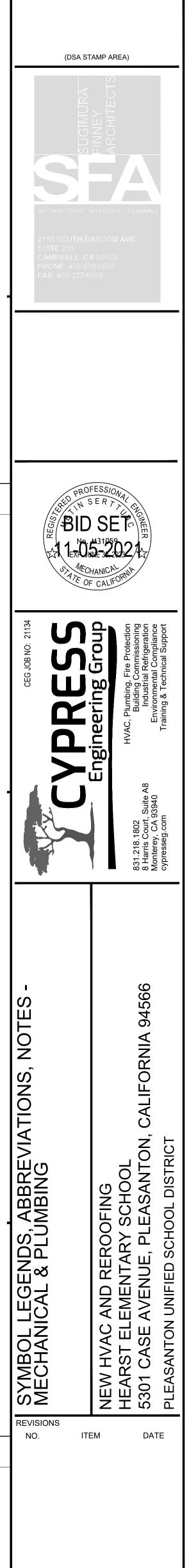
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DRAWN BY: CHECKED BY: SFA JOB NO: 18082

MP0.1

CAD CS DATE: 11/05/2021

HOSE BIBB SCHEDULE												
TAG	MANUFACTURER	MODEL	NOTES									
HB-1	WOODFORD	RHMC	1									

1. PROVIDE WITH MOUNTING SYSTEM.

(E) SITE PELICAN WIRELESS GATEWAY SHALL BE USED. CONTRACTOR SHALL PROVIDE ADDITIONAL REPEATERS IF NÉEDED FOR CONNECTIVITY.

(E) PELICAN WIRELESS THERMOSTATS SHALL BE RE-USED AND WIRED TO NEW UNITS.

CONTRACTOR SHALL PROVIDE PELICAN WIRELESS SUPPLY AIR TEMPERATURE SENSOR AT ALL UNITS. ROOFTOP PACKAGED UNITS:

1. EACH UNIT SHALL BE CONTROLLED BY PELICAN WIRELESS THERMOSTAT. COORDINATE WITH DISTRICT REPRESENTATIVE FOR NETWORK SETTINGS, OCCUPANCY SCHEDULES, SETPOINTS, SETBACK, ETC.

- 2. PELICAN WIRELESS THERMOSTAT SHALL BE CONNECTED TO NEW WIRELESS GATEWAY ON CAMPUS. COORDINATE WITH DISTRICT REPRESENTATIVE FOR IP ADDRESS AND NETWORK SETTINGS.
- 3. UNIT SHALL OPERATE UNDER ITS OWN INTERNAL SEQUENCE TO PROVIDE HEATING OR COOLING BASED ON ROOM SETPOINT.
- 4. PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER SHALL MODULATE OUTSIDE AIR DAMPER TO PROVIDE FREE COOLING WHEN OUTSIDE AIR IS BELOW 75°F (HIGH TEMPERATURE LIMIT) AND OUTSIDE AIR TEMP IS 2°F BELOW ROOM TEMPERATURE (MINIMUM TEMPERATURE DIFFERENTIAL).
- 5. PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER SHALL MODULATE OUTSIDE AIR DAMPER OPEN IF ROOM CO2 LEVEL RISES ABOVE 1000 PPM.
- 6. UNIT SHALL OPERATE CONTINUOUSLY DURING SCHEDULED OCCUPIED HOURS.
- 7. MOTORIZED OUTSIDE AIR DAMPER SHALL OPEN TO MINIMUM POSITION WHEN UNIT IS OPERATING. BALANCE CONTRACTOR SHALL DETERMINE DAMPER SETPOINT.
- 8. WHEN UNIT IS OFF, OUTSIDE AIR DAMPER SHALL BE CLOSED.
- 9. POWER EXHAUST WILL BE CONTROLLED BY MANUFACTURER PROVIDED PRESSURE CONTROLS. CONTRACTOR TO INSTALL PRESSURE TUBING IN SPACE TO READ ROOM PRESSURE. POWER EXHAUST SHALL MODULATE TO MAINTAIN A ROOM PRESSURE OF 0.03 IN.W.C.

EXHAUST FANS:

- 1. EACH FAN SHALL BE CONTROLLED BY ROOM LIGHTS/OCCUPANCY SENSOR.
- 2. (E) FAN CONTROLS SHALL BE RECONNECTED TO NEW FANS.

PELICAN CONTROLS AND SEQUENCE OF OPERATION

	POWER EXHAUST SCHEDULE BLD A														
TAG	MANUFACTURER	MODEL NO.	AC UNIT SERVED	AIRFLOW CFM	ESP IN. W.G.	Motor HP	E	LECTRICA	AL.	WEIGHT LBS	NOTES				
			OLIVED				V / PH	MCA	MOCP						
PE-42	PROVENT	PECCSUN3672DB46CS	AC-42	1980	0.3	1	460 / 3	460 / 3		180	1				

1. PROVIDE WITH MODULATING SPEED POWER EXHAUST AND PRESSURE TRANSDUCER TO CONTROL TO BUILDING PRESSURE.

	1 1	POW	/ER EXHA			BLD B	1				
TAG	MANUFACTURER	MODEL NO.	AC UNIT	AIRFLOW	ESP IN.	MOTOR	E	LECTRIC	AL	WEIGHT	NOTE
-			SERVED	CFM	W.G.	HP	V / PH	MCA	MOCP	LBS	
PE-1	PROVENT	PECCSUN3672DB46CS	AC-1	1980	0.3	1	460 / 3	-	-	180	1
PE-2	PROVENT	PECCSUN3672DB46CS	AC-2	1600	0.4	1	460 / 3	-	-	180	1
PE-3	PROVENT	PECCSUN3672DB46CS	AC-3	1600	0.4	1	460 / 3	-	-	180	1
PE-4	PROVENT	PECCSUN3672DB46CS	AC-4	1600	0.4	1	460 / 3	-	-	180	1
PE-5	PROVENT	PECCSUN3672DB46CS	AC-5	1600	0.4	1	460 / 3	-	-	180	
PE-6	PROVENT	PECCSUN3672DB46CS	AC-6	1600	0.4	1	460 / 3	-	-	180	
PE-7	PROVENT	PECCSUN3672DB46CS	AC-7	1600	0.4	1	460 / 3	-	-	180	
PE-8	PROVENT	PECCSUN3672DB46CS	AC-8	1600	0.4	1	460 / 3	-	-	180	
PE-9	PROVENT	PECCSUN3672DB46CS	AC-9	1600	0.4	1	460 / 3	-	-	180	
PE-10	PROVENT	PECCSUN3672DB46CS	AC-10	1600	0.4	1	460 / 3	-	-	180	
PE-11	PROVENT	PECCSUN3672DB46CS	AC-11	1980	0.3	1	460 / 3	-	-	180	
PE-12	PROVENT	PECCSUN3672DB46CS	AC-12	1980	0.3	1	460 / 3	-	-	180	
PE-15	PROVENT	PECCSUN3672DB46CS	AC-15	1980	0.3	1	460 / 3	-	-	180	
PE-16	PROVENT	PECCSUN3672DB46CS	AC-16	1980	0.3	1	460 / 3	-	-	180	
PE-17	PROVENT	PECCSUN3672DB46CS	AC-17	1980	0.3	1	460 / 3	-	-	180	
PE-18	PROVENT	PECCSUN3672DB46CS	AC-18	1980	0.3	1	460 / 3	-	-	180	
PE-19	PROVENT	PECCSUN3672DB46CS	AC-19	1980	0.3	1	460 / 3	-	-	180	
PE-20	PROVENT	PECCSUN3672DB46CS	AC-20	1980	0.3	1	460 / 3	-	-	180	
PE-21	PROVENT	PECCSUN3672DB46CS	AC-21	1980	0.3	1	460 / 3	-	-	180	
PE-22	PROVENT	PECCSUN3672DB46CS	AC-22	1980	0.3	1	460 / 3	-	-	180	
PE-23	PROVENT	PECCSUN3672DB46CS	AC-23	1980	0.3	1	460 / 3	-	-	180	
PE-24	PROVENT	PECCSUN3672DB46CS	AC-24	1980	0.3	1	460 / 3	-	_	180	

1. PROVIDE WITH MODULATING SPEED POWER EXHAUST AND PRESSURE TRANSDUCER TO CONTROL TO BUILDING PRESSURE.

	POWER EXHAUST SCHEDULE BLD C													
TAG	MANUFACTURER	MODEL NO.	AC UNIT	AIRFLOW	ESP IN.	MOTOR	E	LECTRICA	AL .	WEIGHT	NOTES			
IAO		WOBEL NO.	SERVED	CFM	W.G.	HP	V / PH	MCA	MOCP	LBS	NOTES			
PE-28	PROVENT	PECCSUN3672DB46CS	AC-28	1980	0.3	1	460 / 3	-	-	180	1			
PE-29	PROVENT	PECCSUN3672DB46CS	AC-29	1980	0.3	1	460 / 3	-	-	180	1			
PE-30	PROVENT	PECCSUN3672DB46CS	AC-30	1600	0.4	1	460 / 3	-	-	180	1			
PE-31	PROVENT	PECCSUN3672DB46CS	AC-31	1600	0.4	1	460 / 3	-	-	180	1			
PE-32	PROVENT	PECCSUN3672DB46CS	AC-32	1980	0.3	1	460 / 3	-	-	180	1			
PE-33	PROVENT	PECCSUN3672DB46CS	AC-33	1980	0.3	1	460 / 3	-	-	180	1			
PE-34	PROVENT	PECCSUN3672DB46CS	AC-34	1980	0.3	1	460 / 3	-	-	180	1			
PE-35	PROVENT	PECCSUN3672DB46CS	AC-35	1980	0.3	1	460 / 3	-	-	180	1			

1. PROVIDE WITH MODULATING SPEED POWER EXHAUST AND PRESSURE TRANSDUCER TO CONTROL TO BUILDING PRESSURE.

			AIRFLOW	ESP	FAN	SOUND POWER	MOT	OR	WEIGHT	MOUNTING	
TAG	MANUFACTURER	MODEL NO.	CFM	IN. W.G.	RPM	SONES	HP	V / PH	LBS	DETAIL	NOTES
REF-1	GREENHECK	G-090-VG	350	0.375	1279	5.5	1 / 10	115 / 1	30	5/MP0.2	1, 2, 3
REF-2	GREENHECK	G-090-VG	350	0.375	1279	5.5	1 / 10	115 / 1	30	5/MP0.2	1, 2, 5
REF-3	GREENHECK	G-100-VG	520	0.375	1020	3.8	1/4	115 / 1	42	5/MP0.2	1, 2,
REF-4	GREENHECK	G-120-VG	960	0.375	1044	7	1/4	1/4 115/1		5/MP0.2	1, 2,
REF-5	GREENHECK	G-070-VG	265	0.375	1716	5.8	1 / 10	1 / 10 115 / 1		5/MP0.2	1, 2,
REF-6	GREENHECK	G-070-VG	265	0.375	1716	5.8	1 / 10	115 / 1	25	5/MP0.2	1, 2,
REF-7	GREENHECK	G-070-VG	265	0.375	1716	5.8	1 / 10	115 / 1	25	5/MP0.2	1, 2,
REF-8	GREENHECK	G-090-VG	510	0.375	1480	6.8	1 / 10	115 / 1	30	5/MP0.2	1, 2,
REF-9	GREENHECK	GB-070-VG	160	0.25	1277	2.6	1 / 15	115 / 1	23	5/MP0.2	1, 2,
HEF-1	GREENHECK	CUE-100-VG	750	0.64	1365	7.2	1/4	115/1	49	5/MP0.2	1, 2,

					PACKA	GED ROO	FTOP AIR		IONING U	INITS S	CHEDULE	E BLD-A							
TAG	MANUFACTURER	MODEL NO.	COOL	ING MBH	GAS HEA	TING MBH	AIRFLOW CFM	ESP IN. W.G.	OUTSIDE AIR CFM	FAN RPM	MOTOR BHP	SEER	AFUE %	E V/PH	LECTRIC	AL MOCP	WEIGHT LBS	MOUNTING DETAIL	NOTES
AC-39	YORK	ZF150N18	161.1	116.8	180	144	5000	0.8	1250	1445	5.75	10.8 EER	80	460 / 3	42.7	50	1565	1/MP0.2	1,2,3,4,5,6,9,10,12
AC-40	YORK	ZF150N18	161.1	116.8	180	144	5000	0.8	1250	1445	5.75	10.8 EER	80	460 / 3	42.7	50	1565	1/MP0.2	1,2,3,4,5,6,9,10,12
AC-41	YORK	PCG4A36050	37.0	27.6	50	40	1200	0.8	300	1445	0.5	14	81	460 / 3	7.6	15	630	2/MP0.2	1,3,4,6,7,10,11
AC-42	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
		TIONS AND ACCESSORIE																	OR TO ORDERING .
PROV PROV HINGE PROV PROV MANU	'IDE DRY BULB LOW LI 'IDE WITH LOUVERED ED ACCESS PANELS. 'IDE WITH MERV 13 FIL	EAK ECONOMIZER W/ BA HAIL GUARDS, NON-POW .TERS. SS PEARL ECONOMIZER	ROMETRIC RE VERED CONVE	NIENCE OUTL	et, single p r to be fiel	OINT POWEF	. Coordina	TE WITH	8. PROV 9. PROV 10. PROV 11. PROV 12. RECO	IDE DRY I IDE BARC IDE FLUE IDE OUTS NNECT U	BULB ECONC DMETRIC REL EXTENSION SIDE AIR HOC NIT TO EXIS	DMIZER AND LIEF DAMPEF I KIT DD TING DUCT S	HOOD. R						
			COOL	ING MBH	1	GED ROO		1		INITS S			AFUE	E	LECTRIC	AL	WEIGHT	MOUNTING	
TAG	MANUFACTURER	MODEL NO.	TOTAL	SENSIBLE	INPUT	OUTPUT	CFM	IN. W.G.	AIR CFM	RPM	BHP	SEER	%	V / PH	MCA	MOCP	LBS	DETAIL	NOTES
AC-1	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-2	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
AC-3	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
AC-4	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
AC-5	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
AC-6	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
AC-7	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
AC-8	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
AC-9	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
AC-10	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
\C-11	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
C-12	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
NC-13	YORK	ZF078N12	81.3	62.0	120	96	2600	0.8	650	1178	2.3	11.1 EER	80	460 / 3	20.4	25	1200	1/MP0.2	1,3,4,5,6,8,9,10
C-14	YORK	PCG4A36050	37.0	27.6	50	40	1200	0.8	300	1445	0.5	14	81	460 / 3	7.6	15	630	2/MP0.2	1,3,4,6,7,10,11
C-15	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-16	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
\C-17	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-18	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-19	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-20	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-21	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1210	1.73	14		460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
													80						
AC-22	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-23	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-24	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-27	YORK	PCG4A36050	37.0	27.6	50	40	1200	0.8	300	1445	0.5	14	81	460 / 3	7.6	15	630	2/MP0.2	1,3,4,6,7,10,11
 WEIGHT INCLUDES ALL OPTIONS AND ACCESSORIES. PROVIDE DRY BULB LOW LEAK ECONOMIZER W/ BAROMETRIC RELIEF AND POWER EXHAUST. PROVIDE WITH LOUVERED HAIL GUARDS, NON-POWERED CONVENIENCE OUTLET, SINGLE POINT POWER CONNECTION. AND HINGED ACCESS PANELS. PROVIDE WITH MERV 13 FILTERS. PROVIDE PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER. CONTROLLER TO BE FIELD INSTALLED. COORDINATE WITH MANUFACTURER. VERTICAL DISCHARGE CONFIGURATION. 																			
			1			GED ROOF	TOP AIR	CONDITI	ONING UI	NITS SC	HEDULE	BLD-C							
ГАG	MANUFACTURER	MODEL NO.	COOLIN	NG MBH	GAS HEAT	ING MBH	AIRFLOW CFM	ESP IN. W.G.	OUTSIDE AIR CFM	FAN RPM	MOTOR BHP	SEER	AFUE %	EL V / PH	ECTRICA MCA	L MOCP	WEIGHT LBS	MOUNTING DETAIL	NOTES
2-28	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
.C-29	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
NC-30	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
AC-31	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
			+																

4. INTERLOCK EXHAUST FAN WITH AC 42

	PACKAGED ROOFTOP AIR CONDITIONING UNITS SCHEDULE BLD-A																	
TURER	MODEL NO.	COOLIN	NG MBH	GAS HEATING MBH		AIRFLOW	ESP	OUTSIDE	FAN	MOTOR	SEER	AFUE	E	LECTRICA	AL.	WEIGHT	MOUNTING	NOTES
TURER	MODEL NO.	TOTAL	SENSIBLE	INPUT	OUTPUT	CFM	IN. W.G.	AIR CFM	RPM	BHP	SELK	%	V / PH	MCA	MOCP	LBS	DETAIL	NOTES
ĸ	ZF150N18	161.1	116.8	180	144	5000	0.8	1250	1445	5.75	10.8 EER	80	460 / 3	42.7	50	1565	1/MP0.2	1,2,3,4,5,6,9,10
κ	ZF150N18	161.1	116.8	180	144	5000	0.8	1250	1445	5.75	10.8 EER	80	460 / 3	42.7	50	1565	1/MP0.2	1,2,3,4,5,6,9,10,
κ	PCG4A36050	37.0	27.6	50	40	1200	0.8	300	1445	0.5	14	81	460 / 3	7.6	15	630	2/MP0.2	1,3,4,6,7,10,1
RΚ	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,1

					PACKA	GED ROO	FTOP AIR	CONDITI	ONING U	NITS SO	CHEDULE	BLD-C							
TAG	MANUFACTURER	MODEL NO.	COOLI	NG MBH	GAS HEA	ATING MBH	AIRFLOW	ESP	OUTSIDE	FAN	MOTOR	SEER	AFUE	ELECTRICAL		AL.		MOUNTING	NOTES
TAG	MANUFACTURER	MODEL NO.	TOTAL	SENSIBLE	INPUT	OUTPUT	CFM	IN. W.G.	AIR CFM	RPM	BHP	SEER	%	V / PH	MCA	MOCP	LBS	DETAIL	NOTES
AC-28	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-29	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-30	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
AC-31	YORK	ZE048K07	50.4	37.4	75	59	1600	0.8	400	1068	1.73	14	80	460 / 3	11	15	760	1/MP0.2	1,3,4,6,10
AC-32	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-33	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,10,11
AC-34	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-35	YORK	ZE060K10	60.7	46.2	100	80	1980	0.8	500	1216	1.73	14	80	460 / 3	14.1	20	875	1/MP0.2	1,3,4,5,6,8,9,10
AC-36	YORK	PCG4A36050	37.0	27.6	50	40	1200	0.8	300	1445	0.5	14	81	460 / 3	7.6	15	630	2/MP0.2	1,3,4,6,7,10,11
						- -												MENSIONS PRIC	OR TO ORDERING .

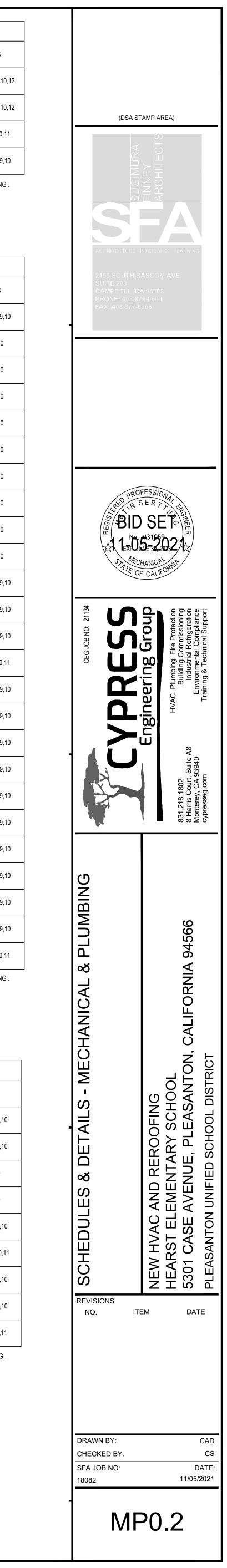
2. PROVIDE DRY BULB LOW LEAK ECONOMIZER W/ BAROMETRIC RELIEF AND POWER EXHAUST. 3. PROVIDE WITH LOUVERED HAIL GUARDS, NON-POWERED CONVENIENCE OUTLET, SINGLE POINT POWER CONNECTION. AND 9. PROVIDE BAROMETRIC RELIEF DAMPER

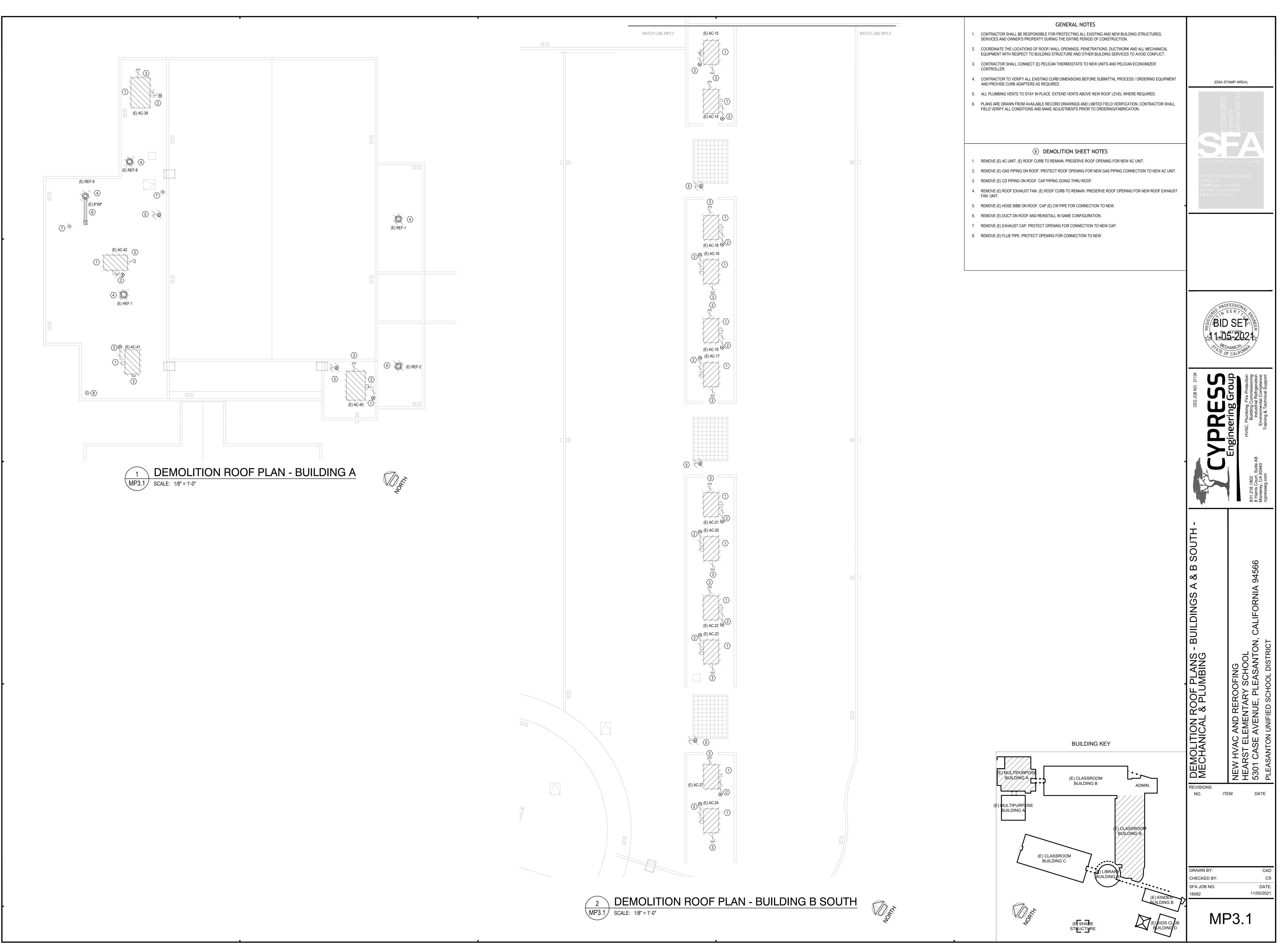
HINGED ACCESS PANELS. 4. PROVIDE WITH MERV 13 FILTERS.

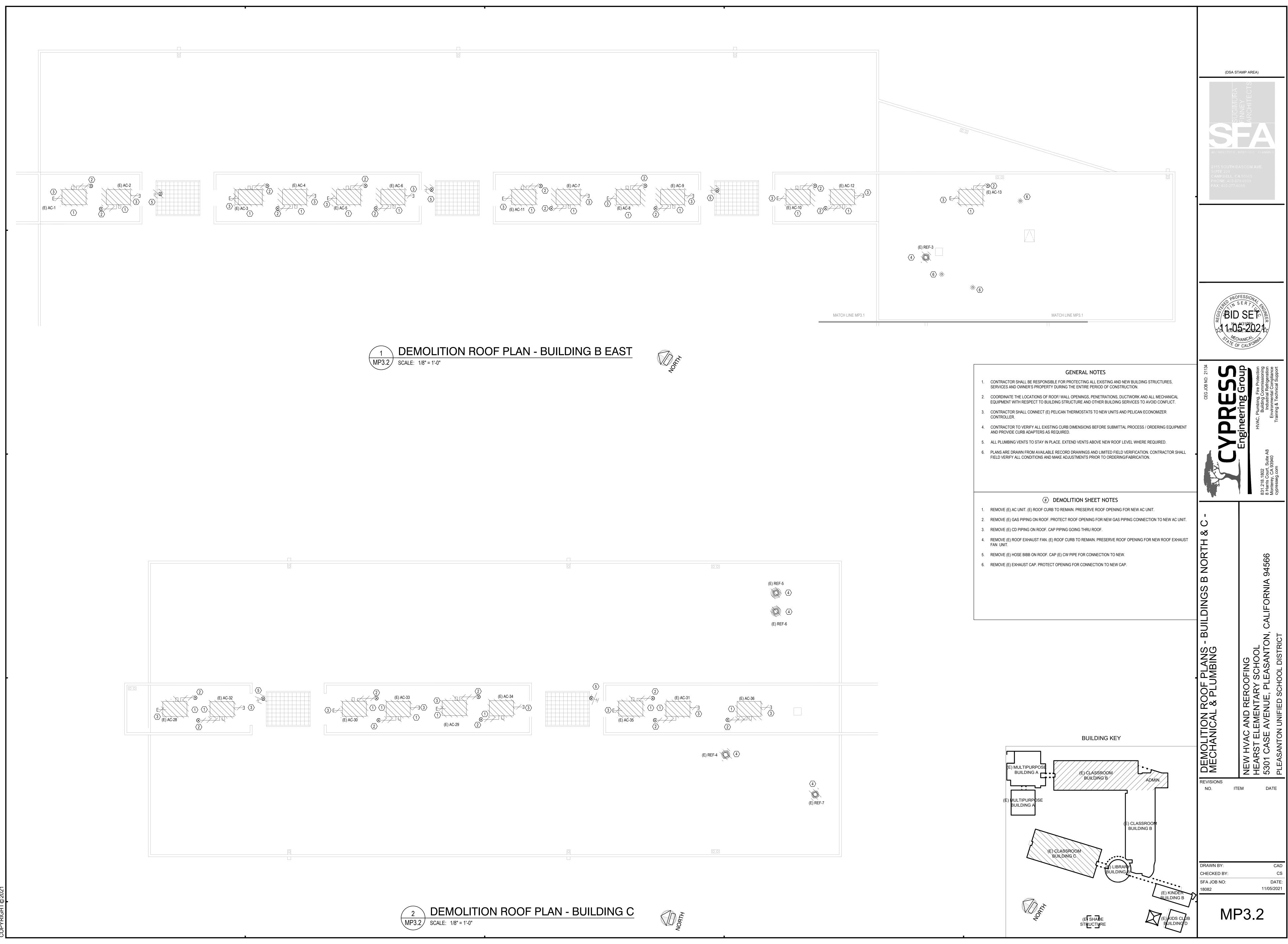
MANUFACTURER.

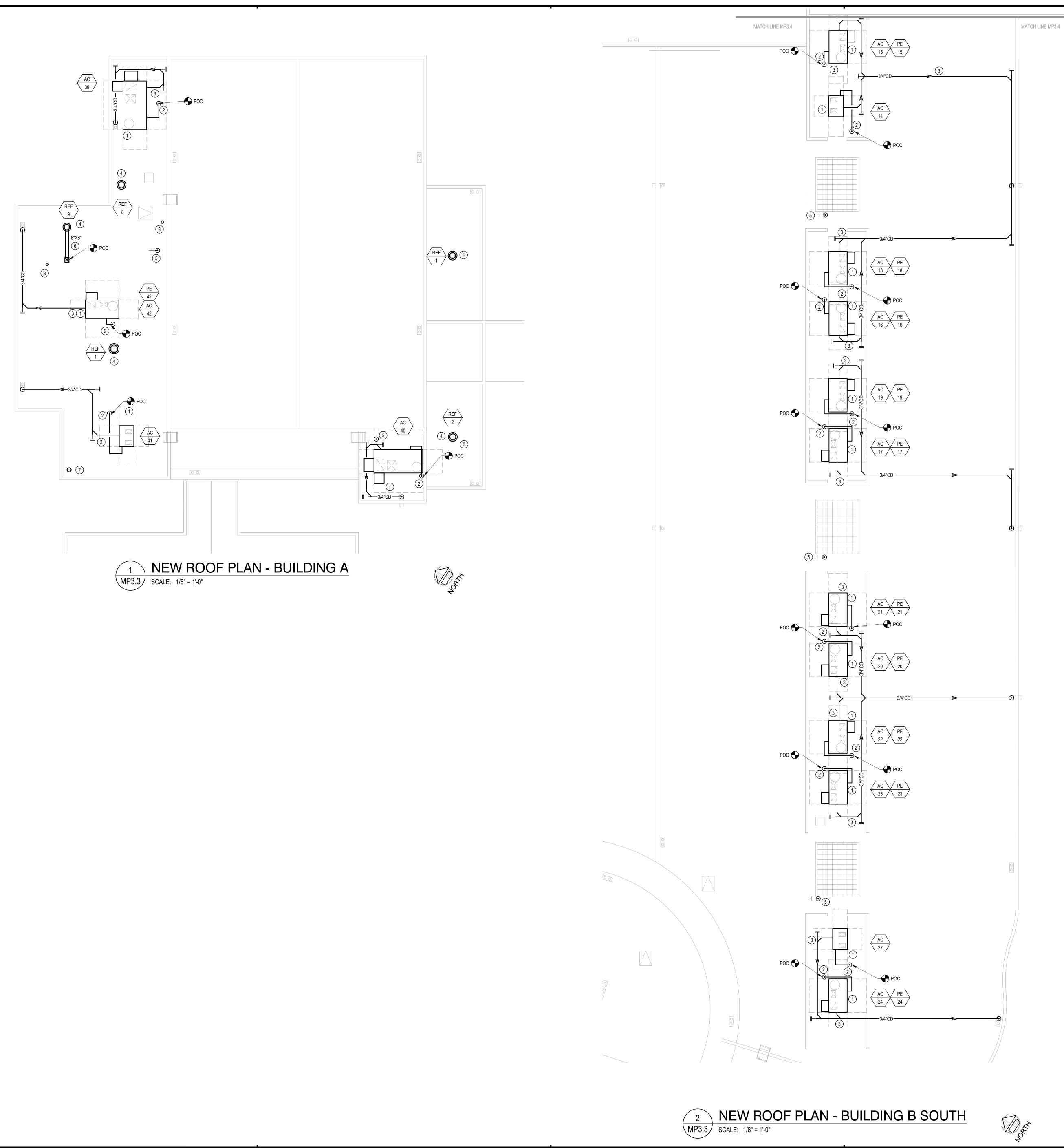
5. PROVIDE PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER. CONTROLLER TO BE FIELD INSTALLED. COORDINATE WITH 6. VERTICAL DISCHARGE CONFIGURATION.

 PROVIDE WITH CURB ADAPTOR (S1-1TC0102). CONTRACTOR SHALL FIELD VERIFY (E) DIMENSIONS PRIOR TO ORDERING.
 PROVIDE DRY BULB ECONOMIZER AND HOOD (NO BAROMETRIC RELIEF DAMPER). 10. PROVIDE FLUE EXTENSION KIT 11. PROVIDE OUTSIDE AIR HOOD







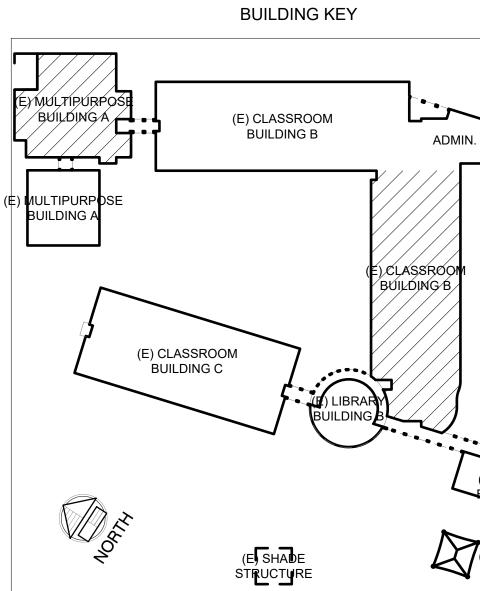


GENERAL NOTES

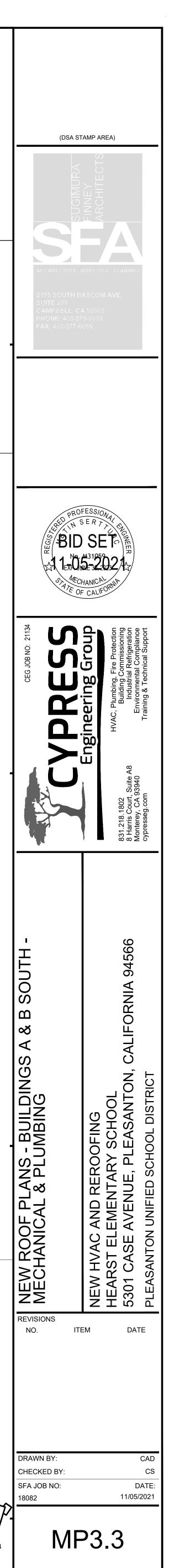
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- 2. COORDINATE THE LOCATIONS OF ROOF/ WALL OPENINGS, PENETRATIONS, DUCTWORK AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
- 3. CONTRACTOR SHALL CONNECT (E) PELICAN THERMOSTATS TO NEW UNITS AND PELICAN ECONOMIZER CONTROLLER.
- 4. CONTRACTOR TO VERIFY ALL EXISTING CURB DIMENSIONS BEFORE SUBMITTAL PROCESS / ORDERING EQUIPMENT AND PROVIDE CURB ADAPTERS AS REQUIRED.
- 5. ALL PLUMBING VENTS TO STAY IN PLACE. EXTEND VENTS ABOVE NEW ROOF LEVEL WHERE REQUIRED.
- 6. PLANS ARE DRAWN FROM AVAILABLE RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND MAKE ADJUSTMENTS PRIOR TO ORDERING/FABRICATION.
- 7. CHECK THE UNITS FOR HEATING, COOLING, ECONOMIZER, AND CONTINUOUS FAN OPERATION. COORDINATE WITH SCHOOL DISTRICT TO PROGRAM THERMOSTATS FOR OCCUPIED SCHEDULE HOURS.

(#) NEW SHEET NOTES

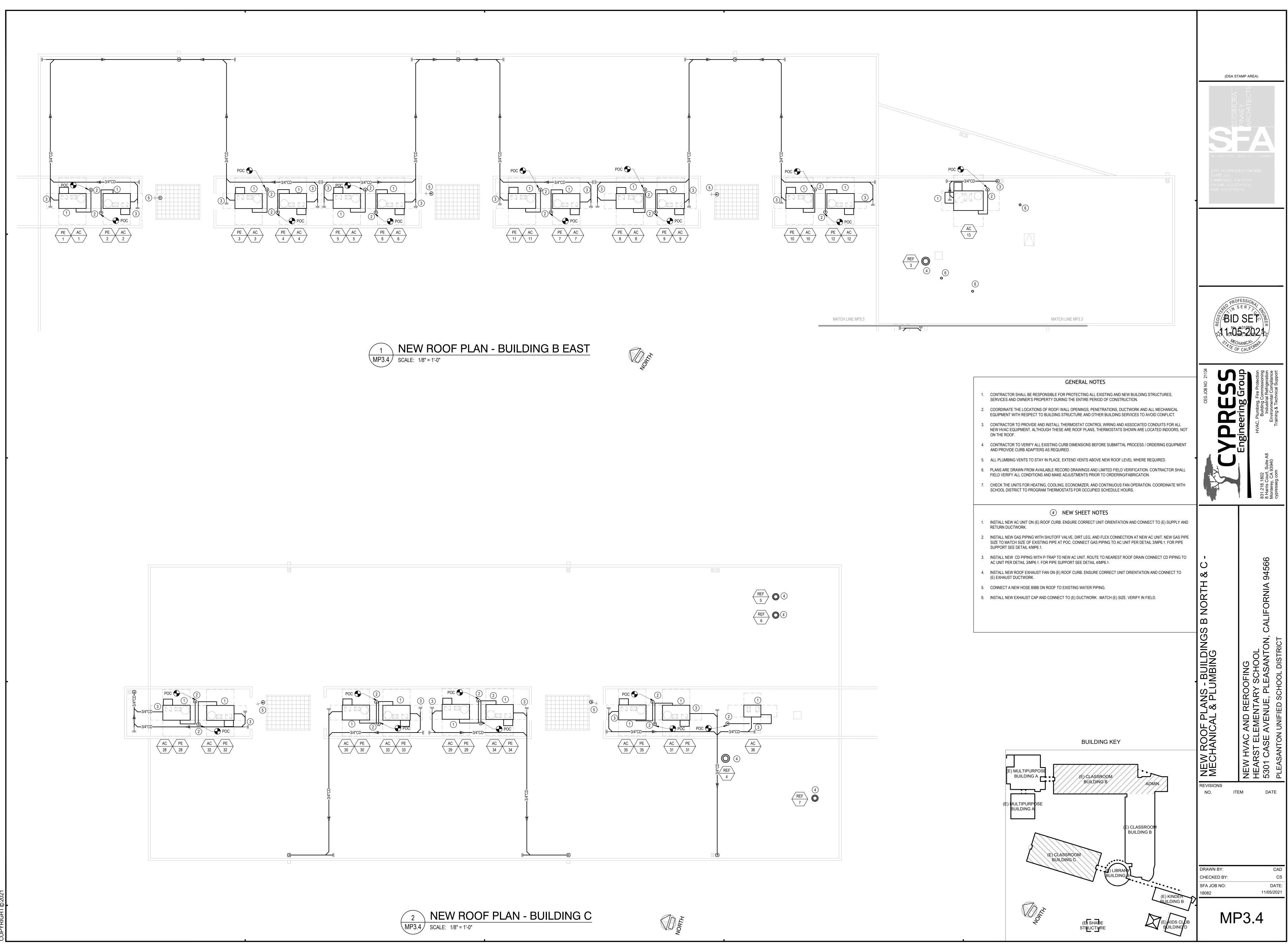
- INSTALL NEW AC UNIT ON (E) ROOF CURB. ENSURE CORRECT UNIT ORIENTATION AND CONNECT TO (E) SUPPLY AND RETURN DUCTWORK.
- 2. INSTALL NEW GAS PIPING WITH SHUTOFF VALVE, DIRT LEG, AND FLEX CONNECTION AT NEW AC UNIT. NEW GAS PIPE SIZE TO MATCH SIZE OF EXISTING PIPE AT POC. CONNECT GAS PIPING TO AC UNIT PER DETAIL 3/MP6.1. FOR PIPE SUPPORT SEE DETAIL 4/MP6.1.
- 3. INSTALL NEW CD PIPING WITH P-TRAP TO NEW AC UNIT. ROUTE TO NEAREST ROOF DRAIN AND SPILL WITH 1" AIR GAP. CONNECT CD PIPING TO AC UNIT PER DETAIL 3/MP6.1. FOR PIPE SUPPORT SEE DETAIL 4/MP6.1.
- 4. INSTALL A NEW ROOF EXHAUST FAN ON (E) ROOF CURB. ENSURE CORRECT UNIT ORIENTATION AND CONNECT TO (E) EXHAUST DUCTWORK.
- 5. CONNECT A NEW HOSE BIBB ON ROOF TO EXISTING WATER PIPING.
- 6. INSTALL EXHAUST FAN AND DUCT IN SAME CONFIGURATION AS (E) TO KEEP EXHAUST MIN. 10FT AWAY FROM AC OUTSIDE AIR INTAKE. SEE 6/MP6.1 FOR SIMPLIFIED SECTION.
- 7. INSTALL NEW FLUE. MATCH (E) SIZE. CONNECT TO DUCT BELOW AND EXTEND 2 FEET ABOVE ROOF PARAPET WALL. 8. INSTALL NEW EXHAUST CAP AND CONNECT TO (E) DUCTWORK . MATCH (E) SIZE. VERIFY IN FIELD.





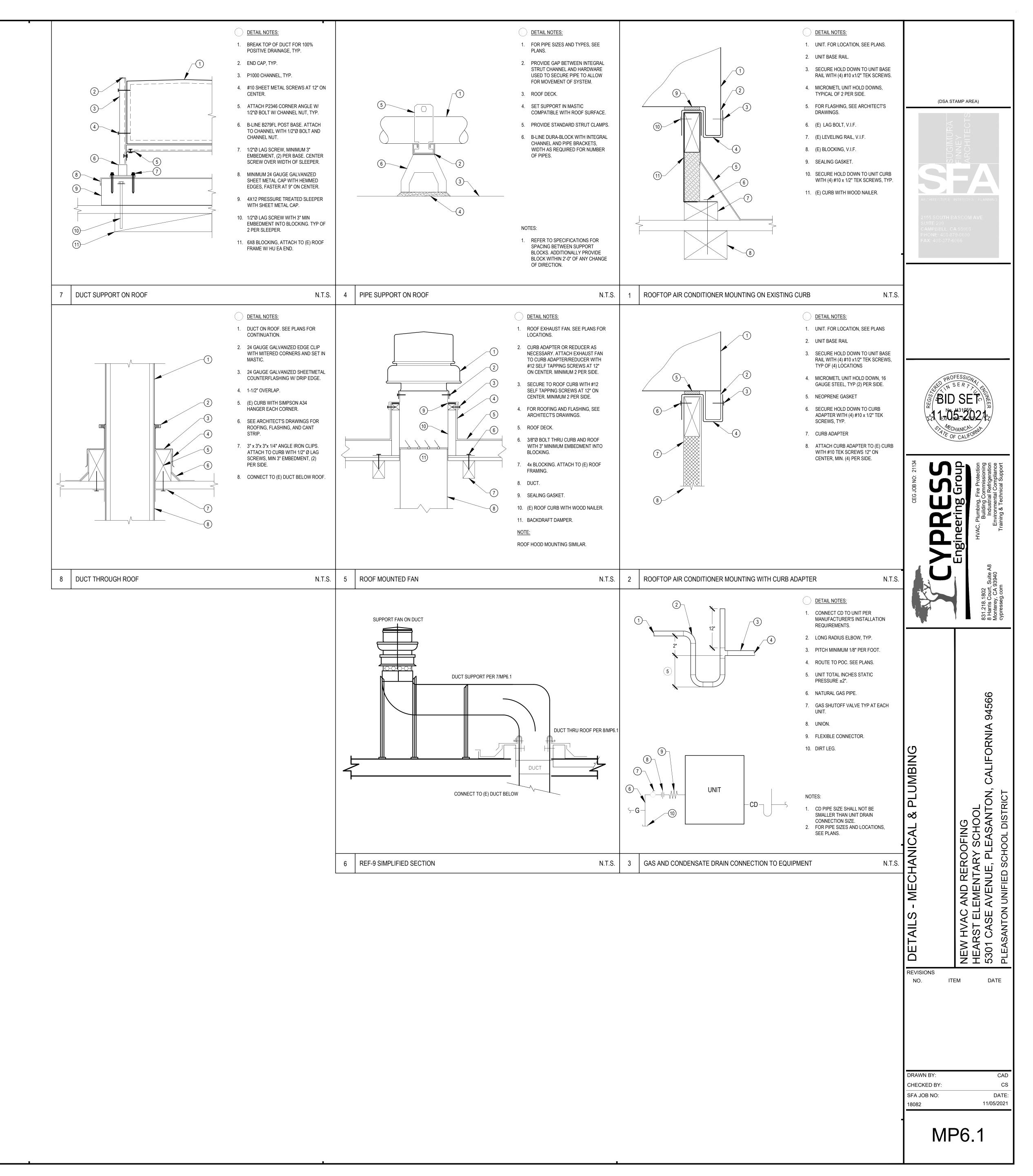


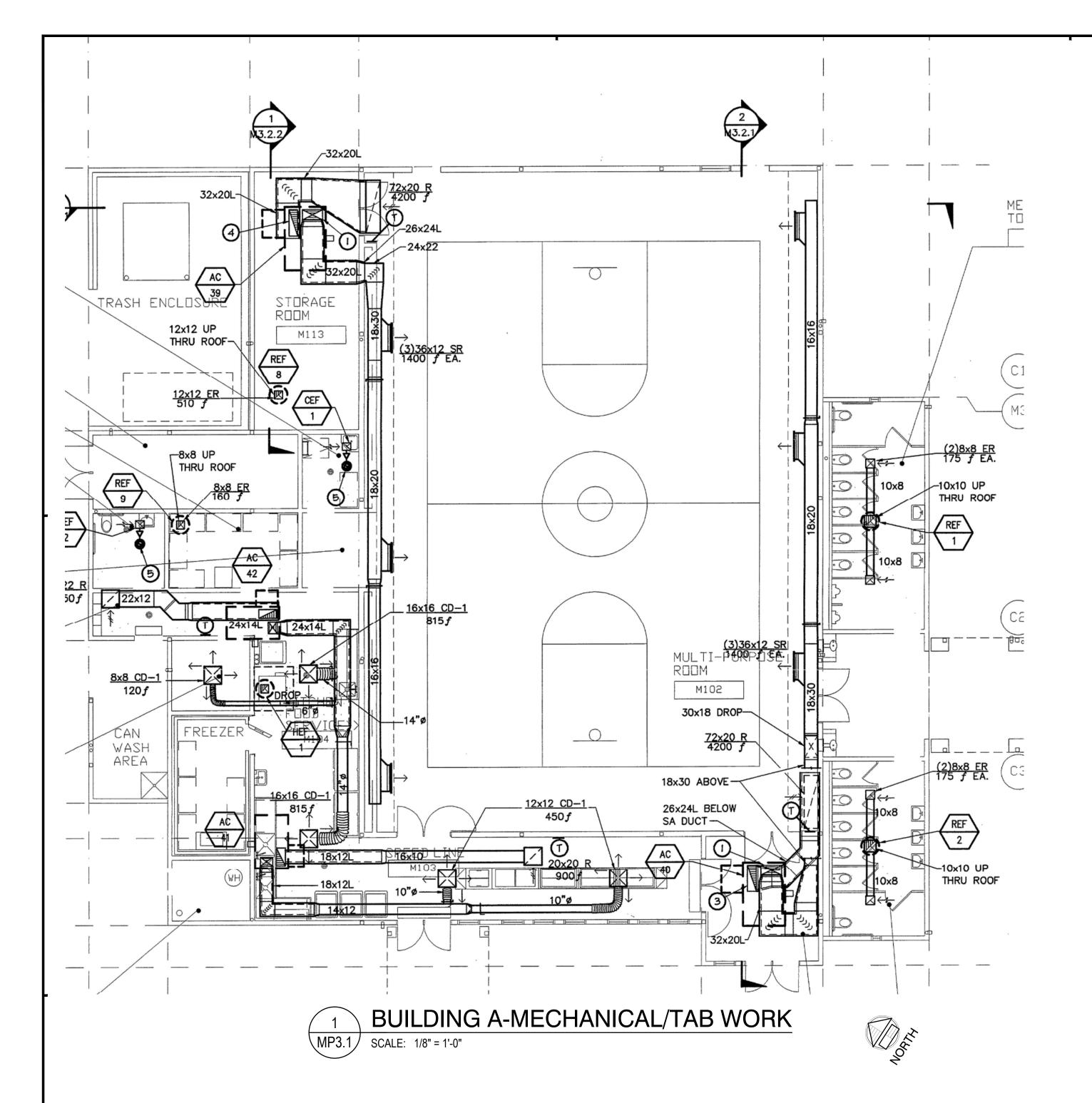
(E) KINDE JII DING F (E) KIDS CLUP

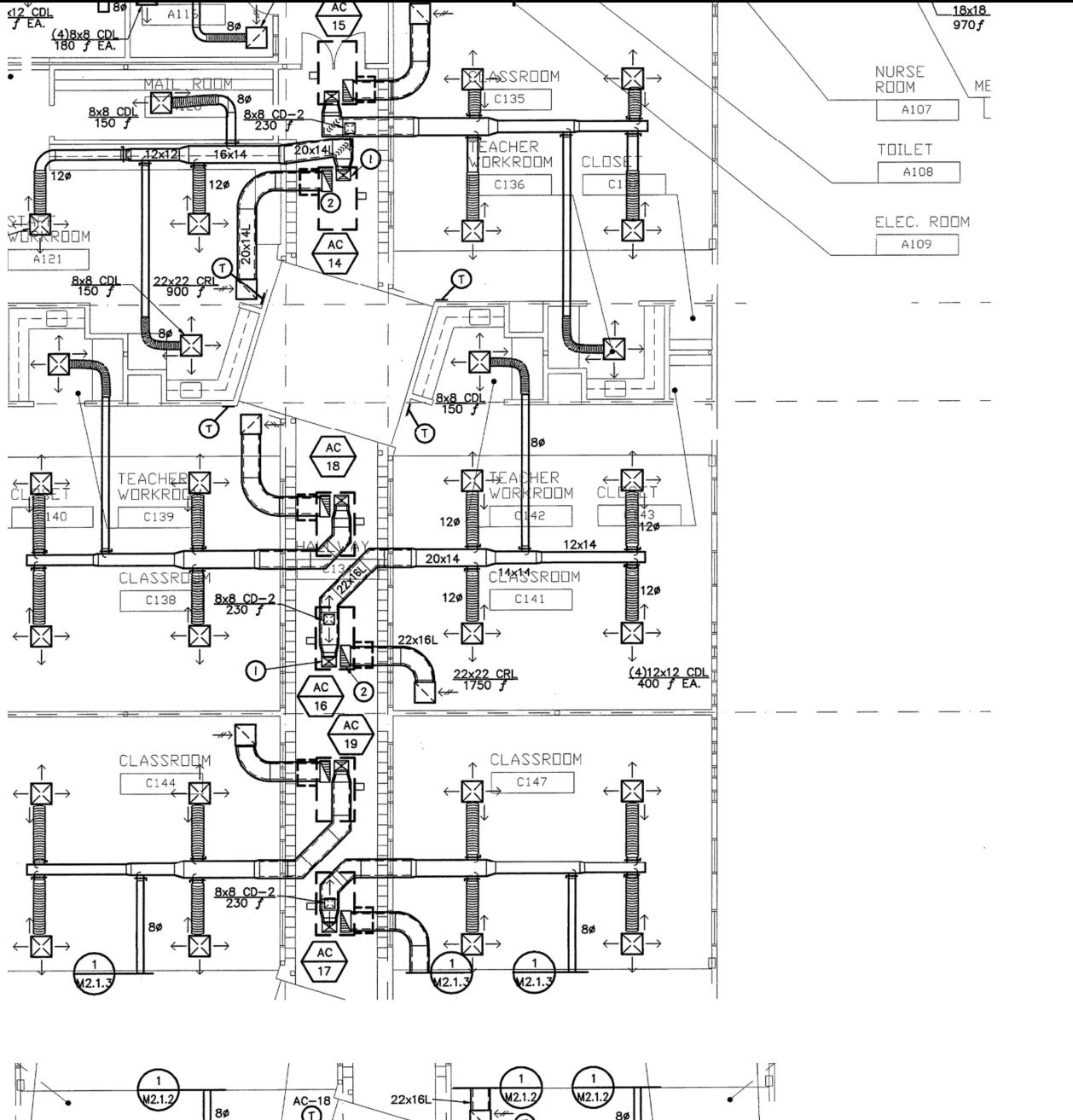


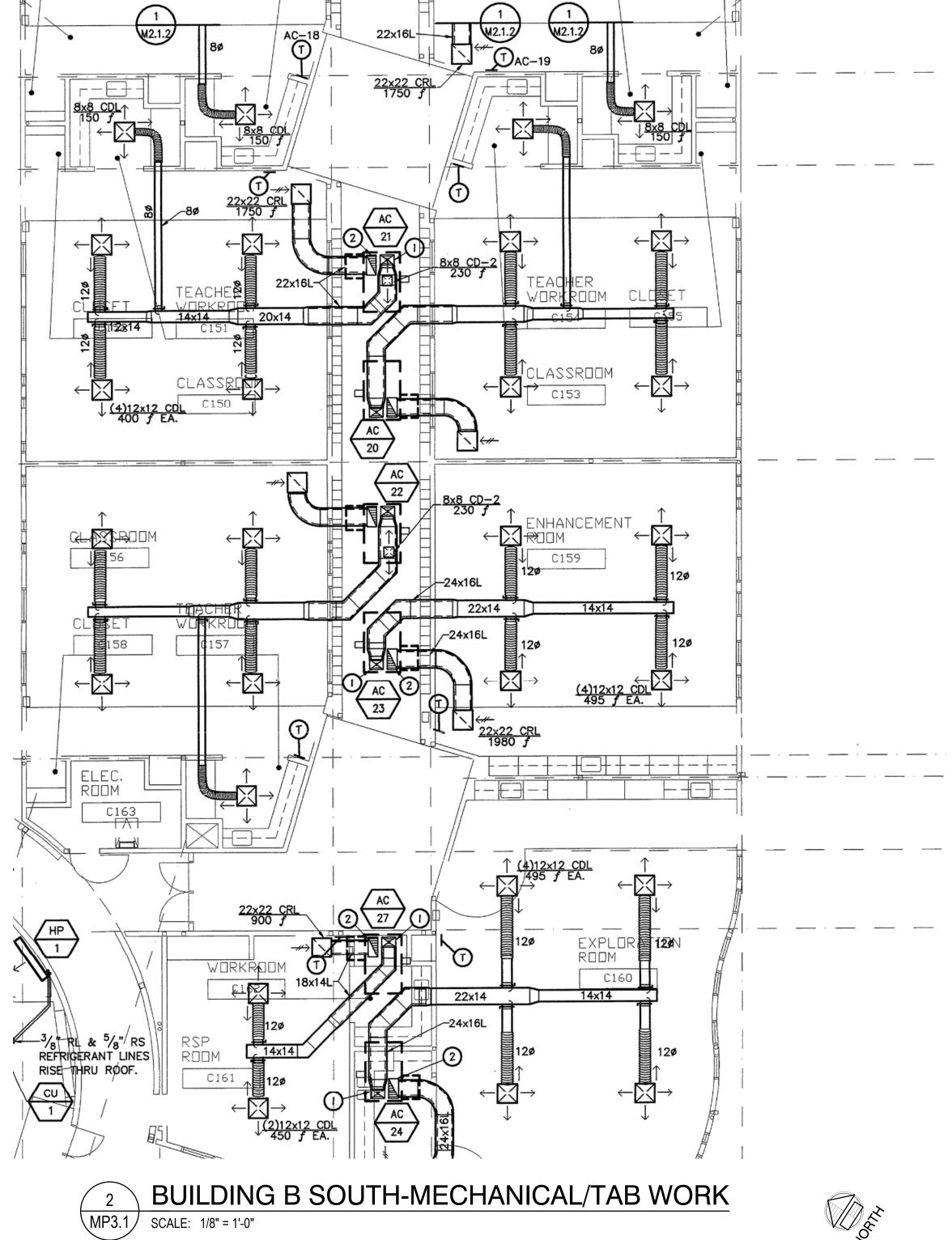
	GENERAL NOTES
1.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTU SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
2.	COORDINATE THE LOCATIONS OF ROOF/ WALL OPENINGS, PENETRATIONS, DUCTWORK AND ALL MEC EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CO
3.	CONTRACTOR TO PROVIDE AND INSTALL THERMOSTAT CONTROL WIRING AND ASSOCIATED CONDUIT NEW HVAC EQUIPMENT. ALTHOUGH THESE ARE ROOF PLANS, THERMOSTATS SHOWN ARE LOCATED I ON THE ROOF.
4.	CONTRACTOR TO VERIFY ALL EXISTING CURB DIMENSIONS BEFORE SUBMITTAL PROCESS / ORDERING AND PROVIDE CURB ADAPTERS AS REQUIRED.
5.	ALL PLUMBING VENTS TO STAY IN PLACE. EXTEND VENTS ABOVE NEW ROOF LEVEL WHERE REQUIRE
6.	PLANS ARE DRAWN FROM AVAILABLE RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRAFIELD VERIFY ALL CONDITIONS AND MAKE ADJUSTMENTS PRIOR TO ORDERING/FABRICATION.
7.	CHECK THE UNITS FOR HEATING, COOLING, ECONOMIZER, AND CONTINUOUS FAN OPERATION. COOR SCHOOL DISTRICT TO PROGRAM THERMOSTATS FOR OCCUPIED SCHEDULE HOURS.
	(#) NEW SHEET NOTES
1.	INSTALL NEW AC UNIT ON (E) ROOF CURB. ENSURE CORRECT UNIT ORIENTATION AND CONNECT TO (E RETURN DUCTWORK.
2.	INSTALL NEW GAS PIPING WITH SHUTOFF VALVE, DIRT LEG, AND FLEX CONNECTION AT NEW AC UNIT. SIZE TO MATCH SIZE OF EXISTING PIPE AT POC. CONNECT GAS PIPING TO AC UNIT PER DETAIL 3/MP6. SUPPORT SEE DETAIL 4/MP6.1.
3.	INSTALL NEW CD PIPING WITH P-TRAP TO NEW AC UNIT. ROUTE TO NEAREST ROOF DRAIN CONNECT AC UNIT PER DETAIL 3/MP6.1. FOR PIPE SUPPORT SEE DETAIL 4/MP6.1.
4.	INSTALL NEW ROOF EXHAUST FAN ON (E) ROOF CURB. ENSURE CORRECT UNIT ORIENTATION AND CO (E) EXHAUST DUCTWORK.
5.	CONNECT A NEW HOSE BIBB ON ROOF TO EXISTING WATER PIPING.
6.	INSTALL NEW EXHAUST CAP AND CONNECT TO (E) DUCTWORK . MATCH (E) SIZE. VERIFY IN FIELD.

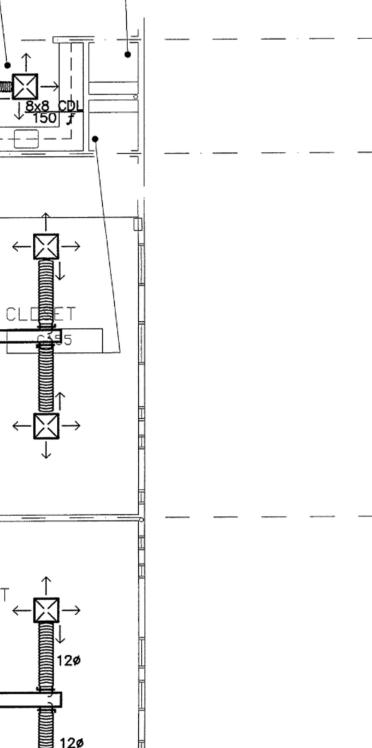
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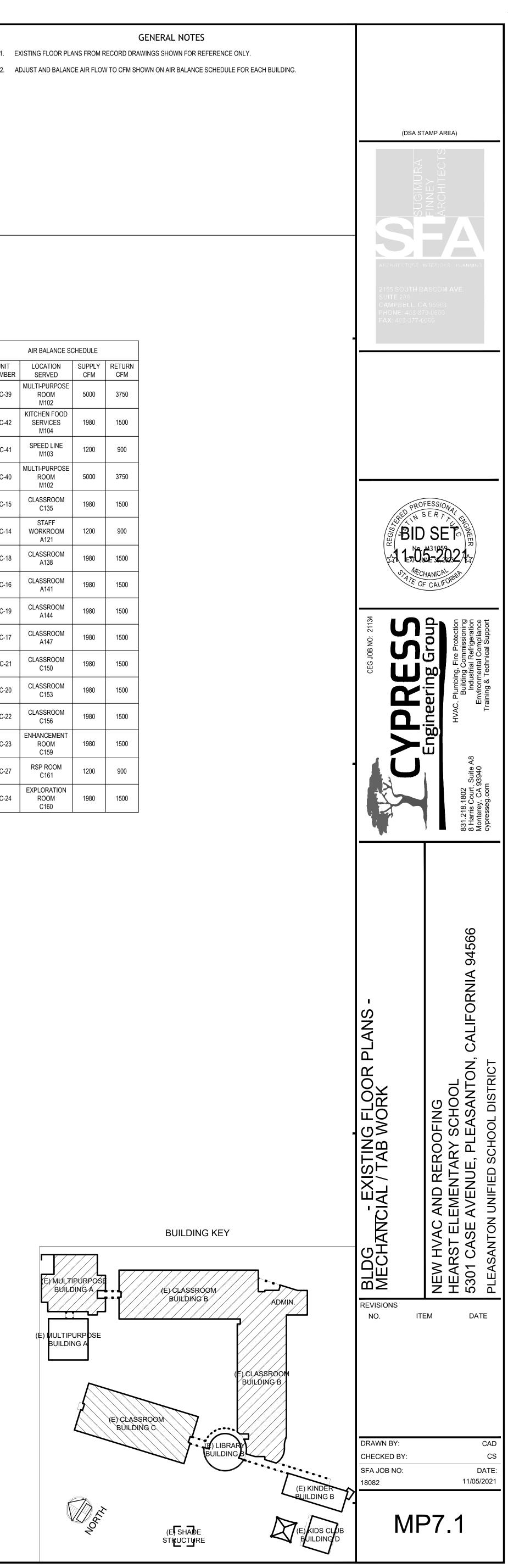


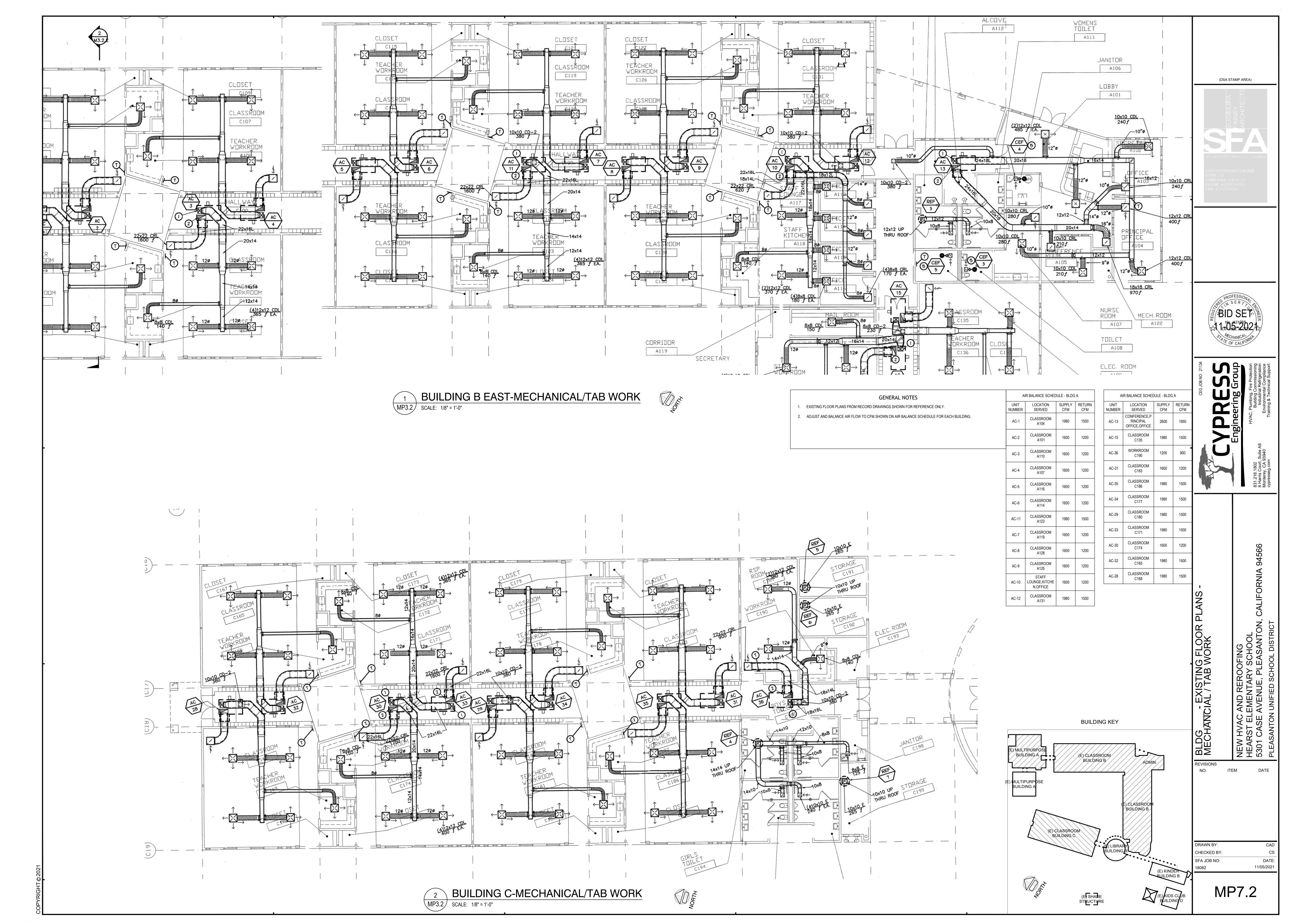


1. EXISTING FLOOR PLANS FROM RECORD DRAWINGS SHOWN FOR REFERENCE ONLY.

2. ADJUST AND BALANCE AIR FLOW TO CFM SHOWN ON AIR BALANCE SCHEDULE FOR EACH BUILDING.

AIR BALANCE SCHEDULE							
UNIT NUMBER	LOCATION SERVED	SUPPLY CFM	RETURN CFM				
AC-39	MULTI-PURPOSE ROOM M102	5000	3750				
AC-42	KITCHEN FOOD SERVICES M104	1980	1500				
AC-41	SPEED LINE M103	1200	900				
AC-40	MULTI-PURPOSE ROOM M102	5000	3750				
AC-15	CLASSROOM C135	1980	1500				
AC-14	STAFF WORKROOM A121	1200	900				
AC-18	CLASSROOM A138	1980	1500				
AC-16	CLASSROOM A141	1980	1500				
AC-19	CLASSROOM A144	1980	1500				
AC-17	CLASSROOM A147	1980	1500				
AC-21	CLASSROOM C150	1980	1500				
AC-20	CLASSROOM C153	1980	1500				
AC-22	CLASSROOM C156	1980	1500				
AC-23	ENHANCEMENT ROOM C159	1980	1500				
AC-27	RSP ROOM C161	1200	900				
AC-24	EXPLORATION ROOM C160	1980	1500				





and a second	Created 09/20		CALIFOR	NIA ENERGY COM	
	E OF COMP				NRCC-MCH
oject Nam		HVAC and Reroofing Hearst Elementary School	Report Page:		Page 7 of 1
oject Addi	ress: 5301	Case Avenue, Pleasanton, CA 94566	Date Prepared:		2021-11-0
DECLAR	ATION OF	REQUIRED CERTIFICATES OF ACCEPTANCE			2
ble E. Ada	litional Ren	ections have been made based on information provided in previous tables of this a narks. These documents must be provided to the building inspector during constru (2019 compliance documents/Nonresidential Documents/NRCA/			
YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector	
TES		Formy file	Systems to be field verified	Pass	Fail
۲	C	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC ur Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFL Acceptance (if applicable) since testing activities overlap.			
۲	Q	NRCA-MCH-03-A Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Singl HVAC Systems are included in the scope, permit applicant should move this form "Yes".			
0	۲	NRCA-MCH-04-A Air Distribution Duct Leakage			
۲	0	NRCA-MCH-05-A Air Economizer Controls			
۲	O	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be sub- for all systems required to employ demand controlled ventilation (refer to §120 can vary outside ventilation flow rates based on maintaining interior carbon dio (CO2) concentration setpoints.	.1(c)3)		
0	۲	NRCA-MCH-07-A Supply Fan Variable Flow Controls			
0	۲	NRCA-MCH-08-A Valve Leakage Test			
0	۲	NRCA-MCH-09-A Supply Water Temperature Reset Controls			
0	۲	NRCA-MCH-10-A Hydronic System Variable Flow Controls			
0	۲	NRCA-MCH-11-A Automatic Demand Shed Controls			

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFORNIA **Mechanical Systems** NRCC-MCH-E (Created 09/2020)

CERTIFICATE OF	COMP	PLIANCE		CALIFORNIA ENERGY CON	NRCC-MCH-E
Project Name:	New	HVAC and Reroofing Hearst Elementary School	Report Page:		Page 8 of 11
Project Address:	5301	L Case Avenue, Pleasanton, CA 94566	Date Prepared:		2021-11-03
۲	0	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units			
0	۲	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	8		
C	۲	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy Sto AC Systems are included in the scope, permit applicant should move this form to			
С	۲	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eute Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) Systems included in the scope, permit applicant should move this form to "Yes".	ectic		
0	۲	NRCA-MCH-16-A Supply Air Temperature Reset Controls			
0	۲	NRCA-MCH-17-A Condenser Water Temperature Reset Controls			
C	۲	NRCA-MCH-18 Energy Management Control Systems			
C	۲	NRCA-MCH-19 Occupancy Sensor Controls			
C	۲	NRCA-MCH-20 Multi-Family Ventilation			
С	۲	NRCA-MCH-21 Multi-Family Envelope Leakage			

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFC	ORNIA					STATE OF CAL	IFORNIA				
Mechanic	cal Syste	ms				Mechan	nical Syst	ems			
NRCC-MCH-E (Cr				CALIFORNIA ENERGY COMI			(Created 09/20			c	
CERTIFICATE	OF COMPLI	ANCE			NRCC-MCH-E	CERTIFICAT	TE OF COMP	LIANCE			
Project Name	e: New H	VAC and Reroofing Hearst Elementary School	Report Page:		Page 9 of 11	Project Nar	me: New	HVAC and Reroofing Hearst Elementary School	Report Pag	e:	
Project Addre	ess: 5301 C	ase Avenue, Pleasanton, CA 94566	Date Prepared:		2021-11-03	Project Add	Project Address: 5301 Case Avenue, Pleasanton, CA 94566 Date Prepared:				
P. DECLARA	TION OF R	EQUIRED CERTIFICATES OF VERIFICATION			2	Table Cont	inued				
Table E. Addi	itional Rema	tions have been made based on information provided in previous tables arks. These documents must be completed by a HERS Rater and provided ders registry, but drafts can be found online at <u>https://www.energy.ca.g</u>	I to the building inspector during construc	ction. The final documents		17	1	Duct system shall be sealed in accordance with the California Mech	anical Code.		
Nonresidentic	al_Documer	nts/NRCV/				M. COOLI	NG TOWER	IS			
YES	NO	Form /Title		Field Inspector		This Section	n Does Not /	Apply			
TES	NO	Form/Title		Pass	Fail						
		NRCV-MCH-04-H Duct Leakage Test			1.2222.02	N. DECLA	RATION OF	REQUIRED CERTIFICATES OF INSTALLATION			
0	۲	NOTE: Must be completed by a HERS Rater						ctions have been made based on information provided in previous to			
0	۲	NRCV-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater						narks. These documents must be provided to the building inspector of /2019_compliance_documents/Nonresidential_Documents/NRCI/	during construction and car	n be found online at <u>https</u>	
0	۲	NRCV-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater				YES	NO	Form/Title		Systems To Be Field Verif	
0	۲	NRCV-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater				۲		NRCI-MCH-01-E - Must be submitted for all buildings.			

September 2020

central contraction of the	COMPLIANCE				¥2.	
	New HVAC and Re				Report F	Page:
Project Address:	5301 Case Avenue	e, Pleasanton, CA	94566		Date Pre	epared:
. SYSTEM CON	TROLS					
	s: Complete the fo 141.0(b)2E for alt		demonstrate compliance w tioning systems.	ith mandatory co	ntrols in <u>§110.2</u> an	d <u>§120.2</u> and prescriptive
01	02	03	04	05	06	07
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats <u>§110.2(b) & (c)</u> ¹ , <u>§120.2(a) or §141.0(b)2E</u>	Shut-Off Controls <u>§120.2(e)</u>	Isolation Zone Controls <u>§120.2(g)</u>	Demand Response <u>§110.12</u> and <u>§120.2(b)</u>
AC	single zone	≤ 25,000 ft ²	Setback + DR Tstat per	NA: 7 day per	NA: Single	DR Tstat per §110.12
¹ FOOTNOTES: Gr required to have	avity gas wall hea setback thermosta	ters, gravity floor nts.	§110.12 heaters, gravity room heat			57 - E
¹ FOOTNOTES: Gr required to have * NOTES: Control EX: System 1: SA	avity gas wall hea setback thermosto s with a * require Temp Reset: Exem	ters, gravity floor its. a note in the spac pt because zones	heaters, gravity room heat	ers, non-central e	 electric heaters, fire ved.	57 - E
¹ FOOTNOTES: Gr required to have * NOTES: Control EX: System 1: SA J. VENTILATION	avity gas wall hea setback thermosto s with a * require Temp Reset: Exem	ters, gravity floor its. a note in the spac pt because zones I R QUALITY	heaters, gravity room heat e below explaining how con compliant with <u>§140.4(d)</u> ;	ers, non-central e mpliance is achie EXCEPTION 1 to §	lectric heaters, fin ved. 5 <u>140.4(f)</u>	eplaces or decorative gas o
¹ FOOTNOTES: Gr required to have * NOTES: Control EX: System 1: SA J. VENTILATION Table Instruction: residential and ho	avity gas wall hea setback thermosto s with a * require Temp Reset: Exem AND INDOOR A s: Complete the fo otel/motel occupa	ters, gravity floor its. a note in the space pt because zones IR QUALITY llowing Table to concies. For alterat	heaters, gravity room heat below explaining how cou	ers, non-central e mpliance is achiev EXCEPTION 1 to <u>s</u> th mandatory ver ns being altered v	electric heaters, fin ved. 5140.4(f) ntilation requireme within the scope of	eplaces or decorative gas ents in <u>§120.1</u> and <u>§120.2(</u> the permit application ne
¹ FOOTNOTES: Gr required to have * NOTES: Control EX: System 1: SA J. VENTILATION Table Instruction: residential and ho	avity gas wall hea setback thermosto s with a * require Temp Reset: Exem AND INDOOR A s: Complete the fo otel/motel occupa le, the required ou	ters, gravity floor its. a note in the space pt because zones I R QUALITY Ilowing Table to con ncies. For alterat tdoor ventilation	heaters, gravity room heat the below explaining how con compliant with <u>§140.4(d);</u> demonstrate compliance wi ions, only ventilation system	ers, non-central e mpliance is achie EXCEPTION 1 to <u>s</u> th mandatory ver ns being altered t hown on the pla	electric heaters, fin ved. 5140.4(f) ntilation requireme within the scope of ns or the calculatio	eplaces or decorative gas ents in <u>§120.1</u> and <u>§120.2(</u> the permit application ne ns can be presented in a s
¹ FOOTNOTES: Gr required to have * NOTES: Control EX: System 1: SA J. VENTILATION Table Instruction: residential and ho In lieu of this tabl	avity gas wall hea setback thermosto s with a * require Temp Reset: Exem AND INDOOR A s: Complete the for otel/motel occupa le, the required ou Check the	ters, gravity floor its. a note in the space pt because zones IR QUALITY Ilowing Table to concies. For alterat tdoor ventilation e box if the proje	heaters, gravity room heat e below explaining how con compliant with <u>§140.4(d)</u> ; demonstrate compliance wi ions, only ventilation syster rates and airflows may be s	ers, non-central e mpliance is achiev EXCEPTION 1 to 5 th mandatory ver ns being altered to hown on the plan culations on the	electric heaters, fire ved. 5140.4(f) ntilation requireme within the scope of ns or the calculatio plans, or attaching	eplaces or decorative gas ents in <u>§120.1</u> and <u>§120.2(</u> the permit application ne ns can be presented in a s
¹ FOOTNOTES: Gr required to have * NOTES: Control EX: System 1: SA J. VENTILATION Table Instruction: residential and ha In lieu of this tabl 01	avity gas wall hea setback thermosto s with a * require Temp Reset: Exem AND INDOOR A s: Complete the fo- otel/motel occupa le, the required ou Check thi Check thi	ters, gravity floor its. a note in the space pt because zones IR QUALITY llowing Table to a ncies. For alterat tdoor ventilation e box if the proje	heaters, gravity room heat the below explaining how con compliant with <u>§140.4(d)</u> ; femonstrate compliance wi ions, only ventilation system rates and airflows may be s ct is showing ventilation cal	ers, non-central e mpliance is achie EXCEPTION 1 to <u>s</u> th mandatory ver ns being altered t shown on the plan culations on the pr Hotel/Motel sp	electric heaters, fire ved. <u>140.4(f)</u> ntilation requirement within the scope of ns or the calculation plans, or attaching paces	eplaces or decorative gas ents in <u>§120.1</u> and <u>§120.2(</u> i the permit application ne ns can be presented in a s

	NRCC-MCH-E
t Page:	Page 8 of 11
Prepared:	2021-11-03
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September 2020

STATE OF CALIFORNIA	
Mechanical Sy	ystem

STATE OF CALIFORNIA

NRCC-MCH-E (Created 09/2020)

CERTIFICATE OF COMPLIANCE Project Name: New HVAC and Reroofing Hearst Elementary School Report Page: Project Address: 5301 Case Avenue, Pleasanton, CA 94566 Date Prepared:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system. ² Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy providing outside air to occupiable space.

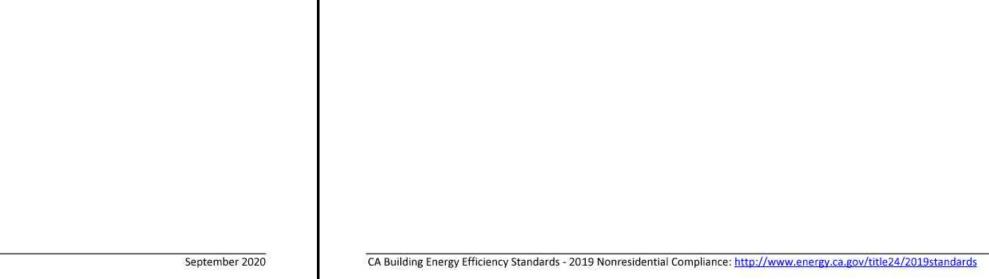
³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence. ⁴ See Standards Tables 120.1-A and 120.1-B ⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

⁶ <u>§120.2(e)3</u> requires systems serving rooms that are required by <u>§130.1(c)</u> to have lighting occupancy sensing controls to also have occupancy ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,00 rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading and unlo §130.1(c).

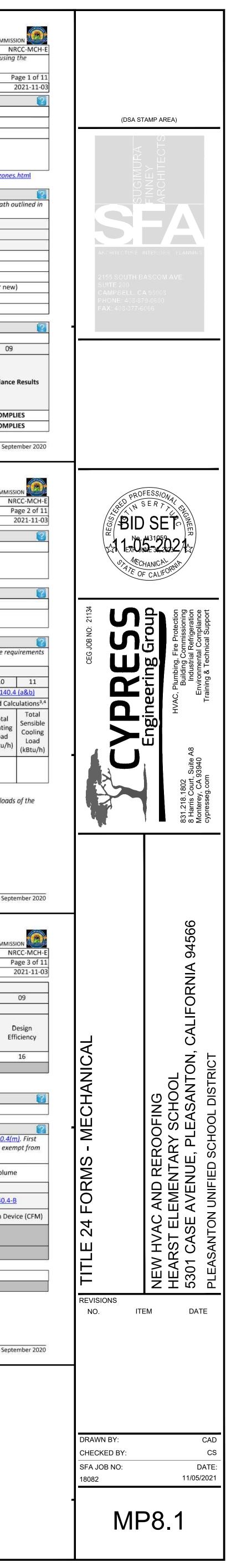
K. TERMINAL BOX CONTROLS This Section Does Not Apply

		omplete the follow akage testing.	ing tables to show compliance with mando	atory pipe insulation requirements found in <u>§120.</u>	. <u>3</u> and pr
	age Sealin				
		questions below ag duct system(s):		Duct leakage testing triggered for these systems?	
11	No	The scope of the	project includes only duct systems servin	g healthcare facilites.	
12	Yes	Duct system pro	vides conditioned air to an occupiable spa	ce for a constant volume, single zone, space-con	ditioning
13	Yes	The space condi	tioning system serves less than 5,000 ft ² o	f conditioned floor area.	
14	No	The combined s	urface area of the ducts in the following lo	cations is more than 25% of the total surface are	ea of the
			Outdoors		
				a U-factor greater than the U-factor of the ceiling of has fixed vents or openings to the outside/ u	
			In an unconditioned crawlspace		
			In other unconditioned spaces		
15	No	The scope of the	project includes extending an existing du	ct system, which is constructed, insulated or sea	led with
16	No		project includes an existing duct system t g in accordance with procedures in the Re	hat is documented to have been previously seal ference Nonresidential Appendix NA2.	ed as cor

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

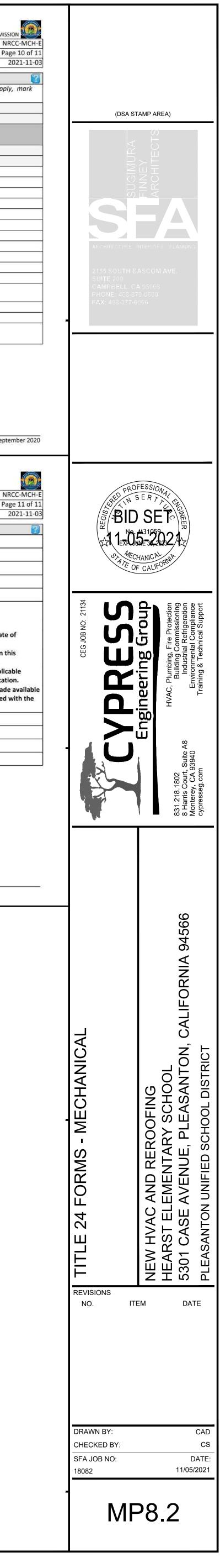


		ne: New HVAC and Reroofir	- CT/2	lool			Report	Page:	, , , , , , , , , , , , , , , , , , ,		ting compliar	
and <u>(n)</u> or	A. GENER	ress: 5301 Case Avenue, Plea				[repared:				
N	02 Climat	t Location (city) e Zone ancy Types Within Project:	and the second	anton 2	05	Contraction of the second	conditione	d Floor Area ble Above	1.52			
	Office (☐ Retail (M) ✓ School (E)				erated Wa	arehouse (S				
ion		se Residential (R-2/R-3) ES: Climate zone can be deterr	Relocatable Class			Other (Wr e at <u>http:/</u>		rgy.ca.gov,	/maps/ren	ewable/bu	<u>iilding_clima</u>	ite_zon
	B. PROJEC	T SCOPE actions: Include any mechanica	ıl systems that are withiu	the scope of th	ne permit ap	polication a	and are der	monstratin	a complian	nce usina th	he prescripti	ve path
		141.0(b)2 for alterations.		My project cor	nsists of (ch		1 Constant				10 12	
	A Heating	01 Air System(s) Air System		Wet S ter Economizer	02 ystem Comj	oonents		Z Air	Economize	Contract Address and	03 m Componer	nts
h-rise Ible.	And the second s	Air System Mechanical Controls	Pur	nps fronic System P	5 - 57			Ele		tance Heat		
	Mechar new)	nical Controls (existing to rema		oling Towers Ilers	238242- 7 2			Ve	ntilation		emain, altere	ed or ne
	C. COMPL	ANCE RESULTS	Boi	lers				Zor	nal System	s/ Termina	l Boxes	
	Table Instru 01	octions: If any cell on this table	osays "DOES NOT COMPL		ES with Exce 05		nditions" r 06	efer to Tab		uidance. 08		0
	System Summary §110.1,	AND PUMPS AND EC	Fans/ Syst conomizers AND §11		entilation	1112368	inal Box ntrols A	Distrit	Contraction of the local sectors of the local secto	Cooli ID Towe	ers	
	<u>§110.2,</u> <u>§140.4</u>		§140.4(e) §140.4(e) §140.4(e)	<u>0.2,</u> .4(f)	<u>9120.1</u>	<u>§14</u>	10.4(d)	<u>§140</u>	<u>).4(I)</u>	<u>§110.2</u>	2 <u>(e)2</u> Cor	mplian
	(See Table Yes	F) (See Table G) (See Table G) AND AND	ee Table H) (See Ta Yes AND Ye	onon-co-co-co-co-co-co-co-co-co-co-co-co-co-	504500e U.S	AND		(See T ND Ye Complianc	es AN	1990 - C.		сом
020	CA Building E	nergy Efficiency Standards - 2019) Nonresidential Complianc	e: <u>http://www.e</u> n	a: 00-3							Sep
	STATE OF CALI	FORNIA										
CH-E	NRCC-MCH-E (ical Systems Created 09/2020) E OF COMPLIANCE								CALIF	FORNIA ENERGY	Y COMM
f 11 1-03	Project Nan	ne: New HVAC and Reroofir ress: 5301 Case Avenue, Plea		nool			Report Date P	Page: repared:				
y		IONAL CONDITIONS auto-filled with uneditable co	mments because of sele	ctions made or o	data entere	d in tables	throughou	it the form.				
	Table H indi	cates a Fan Power System Ind nade in Table O have been cha	ex that exceeds the max	imum allowed p	per §140.4(d	c). Please r	evise to de	emonstrate	compliand			
	E. ADDITIC	ONAL REMARKS						- ppricall				
	This table ir	cludes remarks made by the p	ermit applicant to the A	uthority Having	Jurisdiction	U						
		STEM SUMMARY (DRY &)										11.000
3	found in <u>§1</u>	ictions: Complete the following 40.4(a), <u>§140.4(b)</u> and <u>§140.4(</u> Equipment Sizing (includes a	<u>(k)</u> or <u>§141.0(b)2</u> for alte	rations.		~	.856	52 10	<u>§110.1</u> and	d <u>§110.2(a</u>)	and prescri	ptive re
?	01	02	03		04		05 Equip	06 ment Sizing			09 edule (kBtu/	14. A. C.
		Equipment Category per	Equipment Type		Sm alles Availa			ating Outpu	supp.			Load Ca Total
	Item Tag	<u>Tables 110.2</u>	Tables 110.2 & Tit	l <u>e 20</u>	<u>§140.</u>	1.00	Per Design (kBtu/h)	Rated (kBtu/h)	Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	(kBtu/h)	Heatin Load (kBtu/ł
	AC	Unitary AC/	AC, air cooled, package (3 phase)	Yes	~	54	67		46	60	
		Condensers		/ 10 28	-							
1		ES: Equipment shall be the sm <u>\$140.4(a)</u> . Healthcare faciliti on practice to show rated out	ies are excepted.		1/2/	23 12		.93		-5	3	ling loa
			ng output and load blank	. If equipment	is cooling or	nly, leave h						
	² It is comm ³ If equipme ⁴ Authority	Having Jurisdiction may ask fo										
and	² It is comm ³ If equipme	Having Jurisdiction may ask fo										
	² It is comm ³ If equipme ⁴ Authority Table Conti	Having Jurisdiction may ask fo nued										
and 2020	² It is comm ³ If equipme ⁴ Authority Table Conti	Having Jurisdiction may ask fo	Nonresidential Compliance	e: <u>http://www.en</u>	nergy.ca.gov/	title24/201	9standards					Sep
	² It is comm ³ If equipme ⁴ Authority Table Conti CA Building E STATE OF CALL Mechan	Having Jurisdiction may ask fo nued inergy Efficiency Standards - 2019 FORNIA ical Systems) Nonresidential Complianc	e: <u>http://www.e</u> n	nergy.ca.gov/	title24/201	9standards			CALIF	FORNIA ENERGY	19060
2020 CH-E of 11	² It is comm ³ If equipme ⁴ Authority Table Conti CA Building E STATE OF CALL Mechan NRCC-MCH-E (CERTIFICAT Project Nan	Having Jurisdiction may ask for nued FORNIA FORNIA Ical Systems Created 09/2020) E OF COMPLIANCE ne: New HVAC and Reroofir	ng Hearst Elementary Sch		nergy.ca.gov/	title24/201	Report			CALIF	ORNIA ENERGY	19060
)20 H-E 11	² It is comm ³ If equipme ⁴ Authority Table Conti CA Building E STATE OF CALI Mechan NRCC-MCH-E (CERTIFICAT Project Nan Project Add Dry System	Having Jurisdiction may ask for nued Energy Efficiency Standards - 2019 FORNIA Ical Systems Created 09/2020) E OF COMPLIANCE ne: New HVAC and Reroofir ress: 5301 Case Avenue, Plea Equipment Efficiency (other	ng Hearst Elementary Sch Isanton, CA 94566 than Package Terminal /	iool Air Conditioners	s (PTAC) and	d Package	Report Date P Terminal I	repared: Heat Pump				19060
)20 H-E	² It is comm ³ If equipme ⁴ Authority Table Conti CA Building E STATE OF CALL Mechan NRCC-MCH-E (CERTIFICAT Project Nan Project Add	Having Jurisdiction may ask for nued Energy Efficiency Standards - 2019 FORNIA ical Systems Created 09/2020) E OF COMPLIANCE ne: New HVAC and Reroofir ress: 5301 Case Avenue, Plea Equipment Efficiency (other 02	ng Hearst Elementary Sch Isanton, CA 94566	iool Air Conditioners	s (PTAC) and ating Mode	d Package 05	Report Date P Terminal I	repared:	s (PTHP)) 07	C	08 Cooling Mode	
	² It is comm ³ If equipme ⁴ Authority Table Conti CA Building E STATE OF CALI Mechan NRCC-MCH-E (CERTIFICAT Project Nan Project Add Dry System	Having Jurisdiction may ask for nued Energy Efficiency Standards - 2019 FORNIA Ical Systems Created 09/2020) E OF COMPLIANCE ne: New HVAC and Reroofir ress: 5301 Case Avenue, Plea Equipment Efficiency (other	ng Hearst Elementary Sch Isanton, CA 94566 than Package Terminal /	Nir Conditioners	s (PTAC) and ating Mode Mi	d Package 05 in Efficience equired pe ibles 110.2	Report Date P Terminal I	repared: Heat Pump		C C V Linit	08 Cooling Mode Ain Efficiency Required per Tables 110.2/	
	² It is comm ³ If equipme ⁴ Authority Table Conti CA Building E STATE OF CALL Mechan NRCC-MCH-E (CERTIFICAT Project Nan Project Add Dry System 01 Name or	Having Jurisdiction may ask for nued Energy Efficiency Standards - 2019 FORNIA ical Systems Created 09/2020) E OF COMPLIANCE ne: New HVAC and Reroofir ress: 5301 Case Avenue, Plea Equipment Efficiency (other 02 Size Category	ng Hearst Elementary Sch Isanton, CA 94566 than Package Terminal <i>I</i> 03 Rating Condition	Nir Conditioners	s (PTAC) and ating Mode Mi	d Package 05 in Efficienc equired pe	Report Date P Terminal I y r D / Eff	repared: Heat Pump 06 esign	07	y Unit I	08 Cooling Mode Ain Efficiency Required per	
	² It is comm ³ If equipme ⁴ Authority Table Conti CA Building E STATE OF CALI Mechan NRCC-MCH-E (CERTIFICAT Project Nan Project Add Dry System 01 Name or Item Tag	Having Jurisdiction may ask for nued Energy Efficiency Standards - 2019 FORNIA ical Systems Created 09/2020) E OF COMPLIANCE ne: New HVAC and Reroofir ress: 5301 Case Avenue, Plea Equipment Efficiency (other 02 Size Category (Btu/h)	ng Hearst Elementary Sch Isanton, CA 94566 than Package Terminal <i>I</i> 03 Rating Condition	Nir Conditioners	s (PTAC) and ating Mode Mi	d Package 05 in Efficience equired pe ibles 110.2	Report Date P Terminal I y r D / Eff	repared: Heat Pump 06 esign iciency	07 Efficiency	y Unit I	08 Cooling Mode Ain Efficiency Required per Tables 110.2/ <u>Title 20</u>	
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MCH Mandatory Measures Note B Heating Equipment Efficiency per	01	are left blank will result in	non-compliance in Table	1189 <u>7</u>	
MCH Mandatory Measures Note B Heating Equipment Efficiency per			Plan sheet or cons	02 truction document loca	ation
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Cooling Equipment Efficiency per	Block: No				
Cooling Equipment Efficiency per	03			04	
Cooling Equipment Efficiency per	Mandatory Measure	MP0.2	Plan sheet or cons	truction document loca	ation
Europee Standbulless Court I	No. of the second se	MP0.2			
Furnace Standby Loss Control per	<u>§110.2(d)</u>	NA			
Duct Insulation per §120.4	5440 A	230500			
Heating Hot Water Equipment Effi Cooling Chilled and Condenser Wa	iciency per <u>§110.1</u> ater Equipment Efficiency per <u>§110.1</u>	NA			
	owers conductivity of flow-based controls per	2010			
	owers Flow Meter with analog output per §11	the state of the s			
	owers Overflow Alarm per §110.2(e)4	NA			
Open and Closed Circuit Cooling To Pipe Insulation per <u>§120.3(b)</u>	owers Efficient Drift Eliminators per §110.2(e)	<u>)5</u> NA NA			
Combustion air shutoff, combustic	on air fan controls and stack design and contro	100.0352			
boilers per <u>§120.9</u> Heat Pump with Supplementary El	lectric Resistance Heater Controls per §110.2	(<u>b)</u> NA			
The air duct and plenum system is		NA			
Kitchen range hoods shall be rated 62.2	d for sound in accordance with Section 7.2 of a	ASHRAE NA			
	ds - 2019 Nonresidential Compliance: <u>http://www.</u>	energy.ca.gov/title24/2019sta	andards		
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L CONST	GENERAL	
	CONTRACTOR SHALL COMPLY WI SHALL BE U.L. LISTED AND LABEL	1.
AIN AND PAY FOR ALL	THE CONTRACTOR SHALL OBTAIN THIS CONTRACT WORK.	2.
ESPONSIBLE FOR ALL	CONTRACTOR SHALL VISIT THE P THE CONTRACTOR SHALL BE RES CONTRACT DOCUMENTS. THE CO TRADES WORK. THE CONTRACTO ON PROJECT.	3.
CESSARY FOR LIABILIT	CONTRACTOR SHALL BE RESPON INSURANCE COVERAGE AS NECE PROTECT THE OWNER, ARCHITEC	4.
CONTRACTOR SHALL	CONTRACTOR SHALL MAINTAIN R TO ELECTRICAL SYSTEMS. THE C ACCURATE "AS-BUILT" DRAWINGS	5.
	ALL MATERIALS PROVIDED TO TH PROVIDE AND INSTALL ALL INCIDE	6.
	CONTRACTOR SHALL PROVIDE TO CONSTRUCTION SCHEDULE SHAL	7.
	CONTRACTOR SHALL PROVIDE AL NECESSARY TO RESTORE DAMAC AT START OF WORK.	8.
	CONTRACTOR SHALL BE RESPON REFER TO ARCHITECTS PAINTING	9.
TALLED WITH FLASHING	ALL ELECTRICAL EQUIPMENT INS INTO BUILDINGS SHALL BE INSTAI ELECTRICAL DEVICES SHALL BE F	10.
SHOWN ON CIRCUITRY	ALL CONDUITS UNLESS OTHERWI (1) #12 GROUND. "TICK" MARKS SHALL BE RESPONSIBLE FOR ALL	11.
HAVE INDIVIDUAL NEUT	ALL BRANCH CIRCUITS SHALL HA NOT ALLOWED.	12.
	COORDINATE ALL CONDUIT RUNS CONFLICTS.	
	CONTRACTOR SHALL PROVIDE IN CONSTRUCTION.	
ESSARY TO CUT OR BO OM THE ARCHITECT P	ALL CONDUIT SHALL BE CONCEAU NECESSARY. WHERE IT IS NECES WORK OBTAIN PERMISSION FROM WHERE POSSIBLE.	
WAY AND BOXES. ROU OR OWNER'S REPRES	WHERE IT IS NOT POSSIBLE TO R NON-METALLIC SURFACE RACEW APPROVED BY THE ARCHITECT O	
CAL, SEWER, ETC.). TH BROUND SYSTEMS AS .	CONTRACTOR SHALL BE RESPON WATER, TELEPHONE, ELECTRICA DAMAGE TO EXISTING UNDERGROUND UNDERGROUND SYSTEMS SHALL OWNER.	17.
NERAL DEMOLITION NO	WHERE NON-METALLIC SHEATHE FULLEST EXTENT PER THE GENEI WILL BE PERMITTED ON A CASE-	18.
N. CONTRACTOR IS TO C. IN EACH AREA AND G OR ACCESSIBILITY HALL INSTALL SURFAO NED BY THE ARCHITE	ALL INSTALLATION OF EXPOSED S ARCHITECT BEFORE ROUGH-IN. (SPACE, HOLLOW MULLIONS, ETC. CONCEALED EITHER BY FISHING DETERMINED, CONTRACTOR SHA PLEASING MEANS AS DETERMINE DUE TO ROUTING AS DIRECTED E	19.
RAL DEM	GENER	
	CONTRACTOR SHALL FIELD VERIF BE REMOVED AS DICTATED BY TH	
	REMOVAL SHALL INCLUDE WIRING PLANS AND AS REQUIRED BY THE	
	RACEWAYS ASSOCIATED WITH EL REMAINING WALLS MAY BE ABANI	
	RACEWAYS ASSOCIATED WITH EL WHERE REMOVAL OF EQUIPMENT	
JTLET, DEVICE, FIXTUR	ELECTRICAL CONTRACTOR SHALL	
N DISCONNECTED OR I ALL INTERRUPTED OF	FIXTURES, ETC. HAVE NOT BEEN I CONTRACTOR SHALL RESTORE A	
	MATERIAL.	
ED RACEWAYS MAY B	EXISTING REMAINING CONCEALED REQUIREMENTS OF THE SPECIFIC	I.
BE REUSED FOR NEW	EXISTING FLUSH OUTLETS MAY BE THE SPECIFICATION FOR NEW WC COINCIDE WITH LOCATION SHOW	J.
ING WALLS TO REMAIN	FLUSH OUTLET BOXES IN EXISTIN WIRING, PLUG OPENING AND PRO	K.
BEEN TAKEN FROM OL RIFY ACTUAL CONDITIC	EXISTING WIRING SHOWN HAS BE CONTRACTOR SHALL FIELD VERIF CONDITIONS AND TO MEET THE IN	L.
R DATA, FIBER OPTIC IT SHALL BE REMOVE ATE WITH OWNER OR	WHERE TELEPHONE, COMPUTER WIRING IS TO BE DEMOLISHED IT CONTRACTOR SHALL COORDINAT	M.
OR TO START OF DEM	DESIGNATED FOR REMOVAL OR P BY ELECTRICAL CONTRACTOR. COORDINATE WITH OWNER PRIOF	۷.
NON-REGULAR BUSIN	MAY HAVE TO OCCUR DURING NO WEEK PRIOR TO PLANNED POWER	

AL CONSTRUCTION NOTES

Y WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT ABELED FOR THE APPLICATION. BTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY

HE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. E RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL E CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER ACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES

SPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE IECESSARY FOR LIABILITY AND PERSONAL, PROPERTY DAMAGE, TO FULLY HITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK. AIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS HE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE /INGS ACCEPTABLE TO THE ARCHITECT.

O THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO VCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION. DE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE

SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES. DE ALL REQUIRED "CUTTING. PATCHING. EXCAVATION. BACKFILL AND REPAIRS" AMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING

SPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. ITING SECTION FOR REQUIREMENTS. T INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN ISTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.

ERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE KS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR R ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.

L HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID

DE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE

CEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE ECESSARY TO CUT OR BORE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL FROM THE ARCHITECT PRIOR TO STARTING WORK. REUSE EXISTING CONDUIT

TO REUSE EXISTING CONDUIT OR RUN NEW CONCEALED CONDUIT USE CEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE CT OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.

SPONSIBLE FOR ALL DAMAGE TO EXISTING UNDERGROUND SYSTEMS (GAS, RICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR RGROUND SYSTEMS AS A RESULT OF NEW WORK. REPAIR TO DAMAGED HALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE

ATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO ENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL CLAD CABLE ASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT.

SED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC, FURREI ETC. IN EACH AREA AND REVIEW WITH ARCHITECT. IF SYSTEM CAN BE ROUTED ING OR ACCESSIBILITY, CONTRACTOR IS TO DO SO. IF INACCESSIBILITY IS SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY MINED BY THE ARCHITECT. NO ALLOWANCE FOR ADDITIONAL COMPENSATION TED BY THE ARCHITECT WILL BE MADE.

RAL DEMOLITION NOTES

/ERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO Y THE REQUIREMENTS OF THE PROJECT.

IRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE THESE DEMOLITION NOTES.

TH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN EXISTING BANDONED IN PLACE. REMOVE WIRING FROM CONDUIT.

TH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED. MENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK OUTLET, DEVICE, FIXTURE OR PANEL.

HALL INSURE THAT ALL REMAINING ACTIVE CIRCUITS, DEVICES, OUTLETS, LIGHT EEN DISCONNECTED OR MADE INOPERATIVE DURING DEMOLITION. ELECTRICAL RE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.

HALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND

R MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N. ALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL CIFICATION FOR NEW WORK.

AY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF W WORK, MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND HOWN FOR THE NEW WORK.

STING WALLS TO REMAIN MAY BE ABANDONED IN PLACE. REMOVE DEVICES AND PROVIDE AND INSTALL A BLANK DEVICE PLATE.

S BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL /ERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL HE INTENT OF THE CONTRACT DOCUMENTS.

TER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS OUTLETS OR D IT SHALL BE REMOVED BACK TO THE NEXT TERMINAL POINT. ELECTRICAL DINATE WITH OWNER OR HIS REPRESENTATIVE TO HAVE EQUIPMENT AND WIRING OR PRESERVATION PRIOR TO REMOVAL OF OUTLET BOXES, CONDUIT OR WIRING

PRIOR TO START OF DEMOLITION TO MINIMIZE POWER INTERRUPTIONS. WORK G NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE

		SYMBOLS &
•	SECURITY DOOR CONTACTS	
HMD→	SECURITY MOTION DETECTOR	
HSC⊲	CCTV CAMERA	
НКР	SECURITY SYSTEM KEYPAD	
H•	DOOR BELL PUSHBUTTON	J
НСН	DOOR CHIME WITH LED	_
Ф	RECEPTACLE - DUPLEX *	
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT	
ф	GFCI CONVENIENCE RECEPTACLE - DUPLEX*	
	GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT	
\$	RECEPTACLE DOUBLE DUPLEX *	
φ̈́	HALF SWITCHED DUPLEX RECEPTACLE *	
φ	SINGLE RECEPTACLE*	
$\dot{\Phi}$	DUPLEX RECEPTACLE - CEILING MOUNTED	-
Ф ^{нс}	LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE *	-
ф°	LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE *	
\odot	FLOOR MOUNTED DUPLEX RECEPTACLE	
$\bigcirc \bigcirc$	FLOOR MOUNTED BOX	(
P	POWER OUTLET - SEE PLANS FOR NEMA TYPE *	_
	POWER POLE	_
∇	WALL TELEPHONE OUTLET **	Z_2
V ^[#]	VOICE/DATA WALL OUTLET *	
¥ ^[#]	VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT	
X ^[#]	SURFACE MOUNTED VOICE/DATA WALL OUTLET \star	
	SURFACE MOUNTED VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT	E Ş
-\$-	WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED	/
	WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT	
	VOICE/DATA OUTLET - FLOOR MOUNTED	
$\mathbf{\Psi}$	TV OUTLET *	
[#]	VOICE/DATA OUTLET - CEILING MOUNTED	
S	INTERIOR SPEAKERS CEILING MOUNTED	
ЮS	INTERIOR SPEAKERS WALL MOUNTED	
Ю	CLOCK +8'-0" AFF U.O.N. VERIFY BEFORE INSTALLATION	

EQUIPMENT ANCHORAGE

M/E/P COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL. PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTION 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 & 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED(e.g. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 120 / 220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED IN THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FELXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT OF THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26. 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 PRE-APPROVED INSTALLATION GUIDE (e.g. OSHPD OPM FOR 2013 CBC OR LATER), 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), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP E E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

ELE	CTRICA	۱L	SYMBOLS & AE	BBRE	VIATIONS	S						
ABBREVI	ATIONS SHOWN A	ARE F	FOR GENERAL USE. DISREGARD T	HOSE WHIC	H DO NOT APPEAR	ON THE F	PLANS.					
	PANELBOARD - FL					AIL NOTE REFERENCE SYMBOL						
V////	EQUIPMENT PANE	L - FL	USH MOUNTED		SEE ASSOCIATED I	NOTE ON S	SAME DETAI	L	E3.0 K SHEE		CTION REFERENCE	
	PANELBOARD - SL	JRFAC	CE MOUNTED	F204	FEEDER DESIGNAT	TION:						
77772	EQUIPMENT PANE	EL - SL	IRFACE MOUNTED	F301	SEE ASSOCIATED I		SAME DETAI	E DETAIL $\begin{pmatrix} 1 \\ 2 \end{pmatrix}$			JANTITY OF TELEPHONE (
\mathbb{M}^{-}	METER W/ CURRE	NT TF	ANSFORMER		REVIATIONS					CATES QU	IANTITY OF DATA OUTLET	
/Ю			G OR WALL MOUNTED,	A			GFCI		UND FAULT	NTS	NOT TO SCALE	
/	SIZE PER CODE, T		ND TAG WIRES	AFF	ABOVE FINISHED FL	.OOR	GFI		RRUPTING	OAH OC	OVERALL HEIGHT ON CENTER	
	MOTOR CONNECT			ALUM/A ARCH	ARCHITECT		GND, G GRS		ANIZED RIGID	OH	OVERHEAD	
C			VITCH: FUSED WITH	AWG	AMERICAN WIRE		HT	HEIG	HT	PA PB	PUBLIC ADDRESS PULL BOX	
Ľ		JSES	SIZED PER EQUIPMENT	BKR C	BREAKER CONDUIT		IC IDF	INTE	RCOM RMEDIATE RIBUTION FRAME	PF PH	POWER FACTOR PHASE	
			R/FUSED DISCONNECT SWITCH;	CATV CB	CABLE TV CIRCUIT BREAKER		INCAND	INCA	NDESCENT	PIR PNL	PASSIVE INFRARED PANEL	
⊳	FUSED DISCONNE	CT SV	VITCH ELEMENT FUSES SIZED S NAMEPLATE DATA	CCTV CKT	CLOSED CIRCUIT TV CIRCUIT	/	JB KV	KILO		PV PVC	PHOTOVOLTAIC POLYVINYL	
			IEMA SIZE INDICATED	CL CLG	CENTER LINE CEILING		KVA KW		VOLT AMPERES WATT	PWR	CHLORIDE POWER	
\boxtimes			INLESS OTHERWISE SPECIFIED	C.O. CTR	CONDUIT ONLY CENTER		LCP	LIGH [®] PANE	TING CONTROL	(R) (RP)	RELOCATE REMOVABLE POLE	
\frown	CIRCUIT BREAKER	R		D	DIMMER		LTG LV	LIGH			T'S RECEPTACLES	
} –∣⊪	GROUND ROD WIT	'H GR	OUNDWELL BOX	DIST	DISTRIBUTION		KCM	THOU	JSAND ULAR MILS		1T'S REQUIREMENT(S) SHEET	
 I+	GROUND ELECTRO	ODE		(E) EC	EXISTING ELECTRICAL CONTR	RACTOR	M.B.		CIRCUIT BREAKER	SLD STC	SINGLE LINE DIAGRA	
	NORMALLY OPEN	CONT	TACT	(EL) EM	EVENING LIGHT EMERGENCY		MCA		UIT AMPS	CIM	CABINET SWITCH	
-//—	NORMALLY CLOSE	ED CC	NTACT	EMT	ELECTRICAL METALLIC TUBING		MDF MECH		DISTRIBUTION FRAME	SWBE TTB		
\ge	TRANSFORMER - S	SEE S	INGLE LINE FOR SIZE	EQUIP	EQUIPMENT	F	MH MLO	MAIN	AL HALIDE LUGS ONLY	TYP	BACKBOARD	
	PULLBOX			EV FA	ELECTRICAL VEHICL FIRE ALARM	-E	MPOE MTD	MOU		UON	UNLESS OTHERWISE	
	FLEX CONDUIT WI		NINECTION	FACP	FIRE ALARM CONTROL PANEL		MTG MOCP	MAXI	NTING MUM OVER	UG V VD	UNDERGROUND VOLT VOLTAGE DROP	
		moo	JUNECTION	FC FIN	FOOT CANDLE FINISH		(N)	NEW		W	WATT	
0	CONDUIT - UP			FL FLA	FLOOR FULL LOAD AMPS		NIC NIEC	NOT	IN CONTRACT IN ELECTRICAL	W/ WP	WITH WEATHERPROOF	
•	CONDUIT - DOWN			FLUOR (F)	FLUORESCENT FUTURE		(NL)	NIGH	TRACT T LIGHT	XFMF	R TRANSFORMER	
	SURFACE METAL (OR NC	DN-METALLIC RACEWAY	GC	GENERAL CONTRAC	CTOR	NO. NOM	NUMI NOM				
_ · ·	CONDUIT - EXISTIN	١G		FIRE	ALARM							
	CONDUIT - CONCE	ALED	IN WALLS OR CEILING		SEE FIRE ALARM DRAW	INGS FOR	QUANTITIES	S AND	MOUNTING HEIGHTS.			
	CONDUIT - BELOW UNDERGROUND: 3				ANUAL PULL STATION		DUCT SM	OKE D	DETECTOR	APS	AUXILIARY POWER SUPP	
	CAPPED OR STUB					C						
	CONDUIT CONTINU	JATIO	N		STROBE ONLY	Ŷ	TAMPER	SWITC	л Л	FSA	FIRE SYSTEM ANNUNCIA	
			O PANEL, TERMINAL	Ľ ŀ	IORN ONLY	8	FLOW SW	/ITCH		FTR	FIRE ALARM TRANSPON	
te	CABINET, ETC. AS - RUNS MARKED WI	TH CF	ROSSHATCHES	M N	/INI HORN	, ¢,	POST IND		NG VALVE		OR TRANSMITTER	
10	INDICATE NUMBER	N TWC). SIZE CONDUIT			Ň				ESR	ELEVATOR STATUS/REC	
	ACCORDING TO SE APPLICABLE CODE		ICATIONS AND	∑ X ⊦	IORN/STROBE		FIRE SMC	KE DA	AMPER	FAC	FIRE ALARM COMMUNIC	
	- CROSS HATCHES INDICATES WIRE S		NUMBER ADJACENT THER THAN #12		CHIME/STROBE	$\hat{\Box}$	BELL (GO	NG)		ANN	REMOTE ANNUNCIATOR	
	AWG.			_								
$\langle 2 \rangle$	SHEET NOTE REFE SEE ASSOCIATED			() H	EAT DETECTOR	FCP	FIRE ALA	RM CC	ONTROL PANEL	EOL	END OF LINE	
$\overline{3}$	SCHEDULE SYMBO		E ASSOCIATED	2	MOKE DETECTOR					* +15"	A.F.F. TO BOTTOM OF B A.F.F. TO TOP OF BOX,	
\checkmark	NOTE ON SAME SH	HEET			CARBON MONOXIDE ALARM						IBER IN BRACKETS DENO	
											CABLE DROPS WHEN MOI	
		יי						 קרי ר				
			APPLICABLE C	ODE	S & STAN	IDAF	RDS		SH	IEE	T INDEX	
			CODES:					1	E0.1 SYMBOLS, A	BBRFVIA	TIONS, CODES, STANDAR	
		1						1 I	0.100L0, A	• // \	,,,,,	

- 2019 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
- 2019 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL, 1 & 2 BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS. 2019 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE
- 2017 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
- 4. 2019 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS. 2019 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018
- UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
- 6. 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6. 2019 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018
- INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
- 8. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11. 9. 2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
- 10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 11. NATIONAL FIRE ALARM CODE (NFPA 72) 2016.

STANDARDS:

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

- 2. ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
- 3. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
- 4. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- 5. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
- 6. UNDERWRITER LABORATORIES (UL)
- 7. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

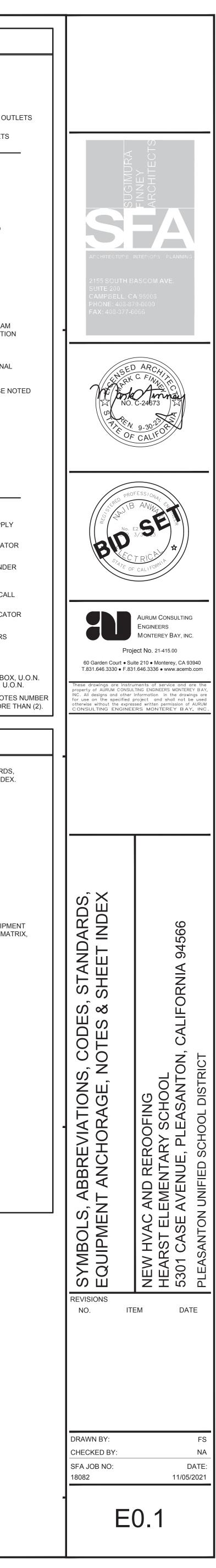
E0.1 SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, EQUIPMENT ANCHORAGE, NOTES & SHEET INDEX. E1.1 ELECTRICAL DETAILS. E2.1 ELECTRICAL SITE PLAN. E3.1 PARTIAL ELECTRICAL DEMOLITION PLAN. E3.2 PARTIAL ELECTRICAL DEMOLITION PLAN. E4.1 PARTIAL ELECTRICAL ROOF PLAN. E4.2 PARTIAL ELECTRICAL ROOF PLAN.

E4.3 PARTIAL POWER PLAN.

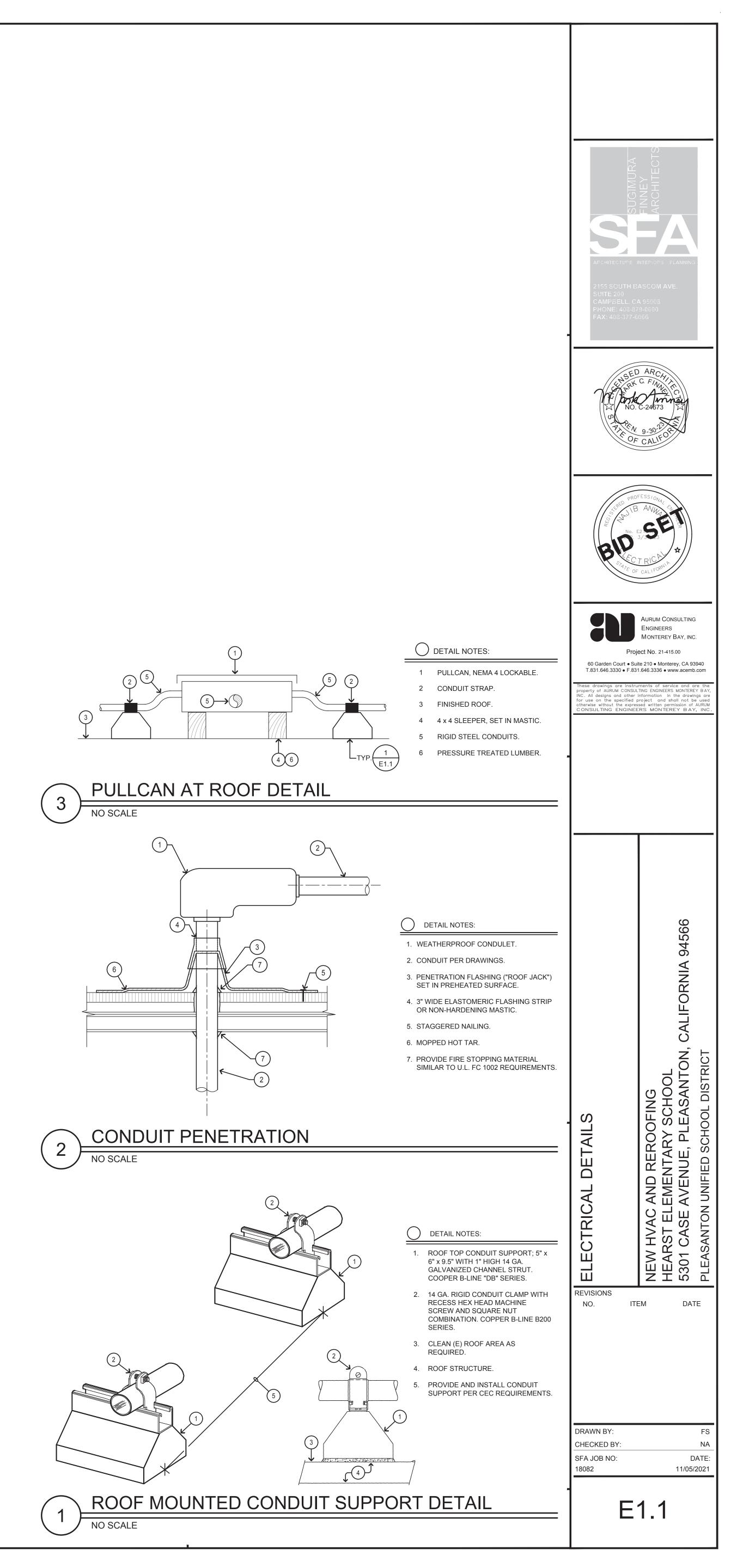
E4.4 PARTIAL POWER PLAN.

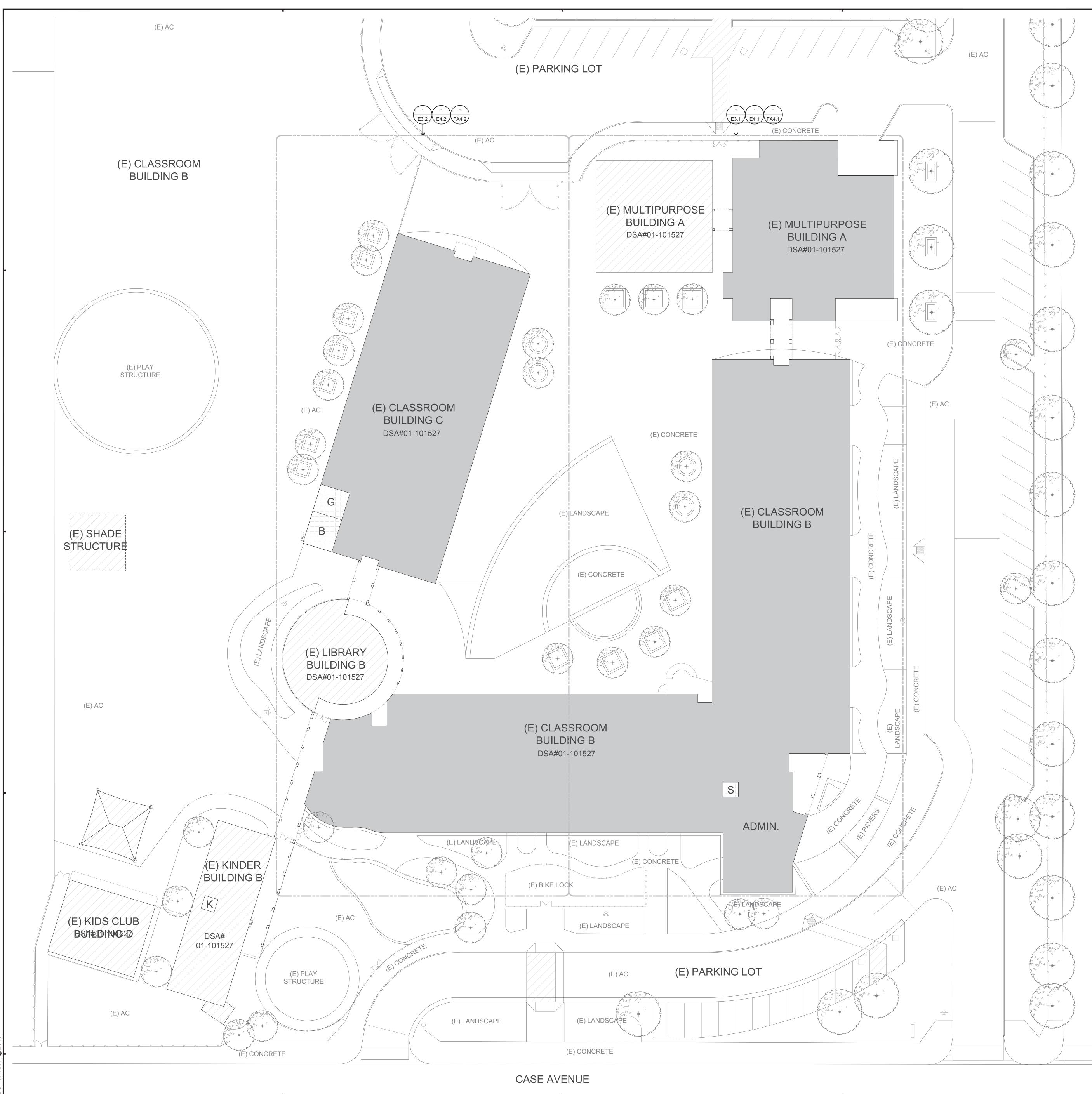
FA0.1 FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, BATTERY CALCULATION, OPERATIONAL MATRIX, NOTES & FIRE ALARM RISER DIAGRAM.

- FA4.1 PARTIAL FIRE ALARM PLAN.
- FA4.2 PARTIAL FIRE ALARM PLAN.



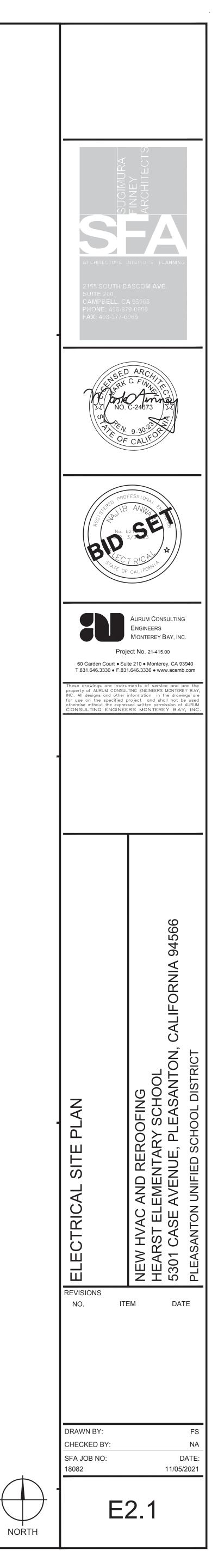
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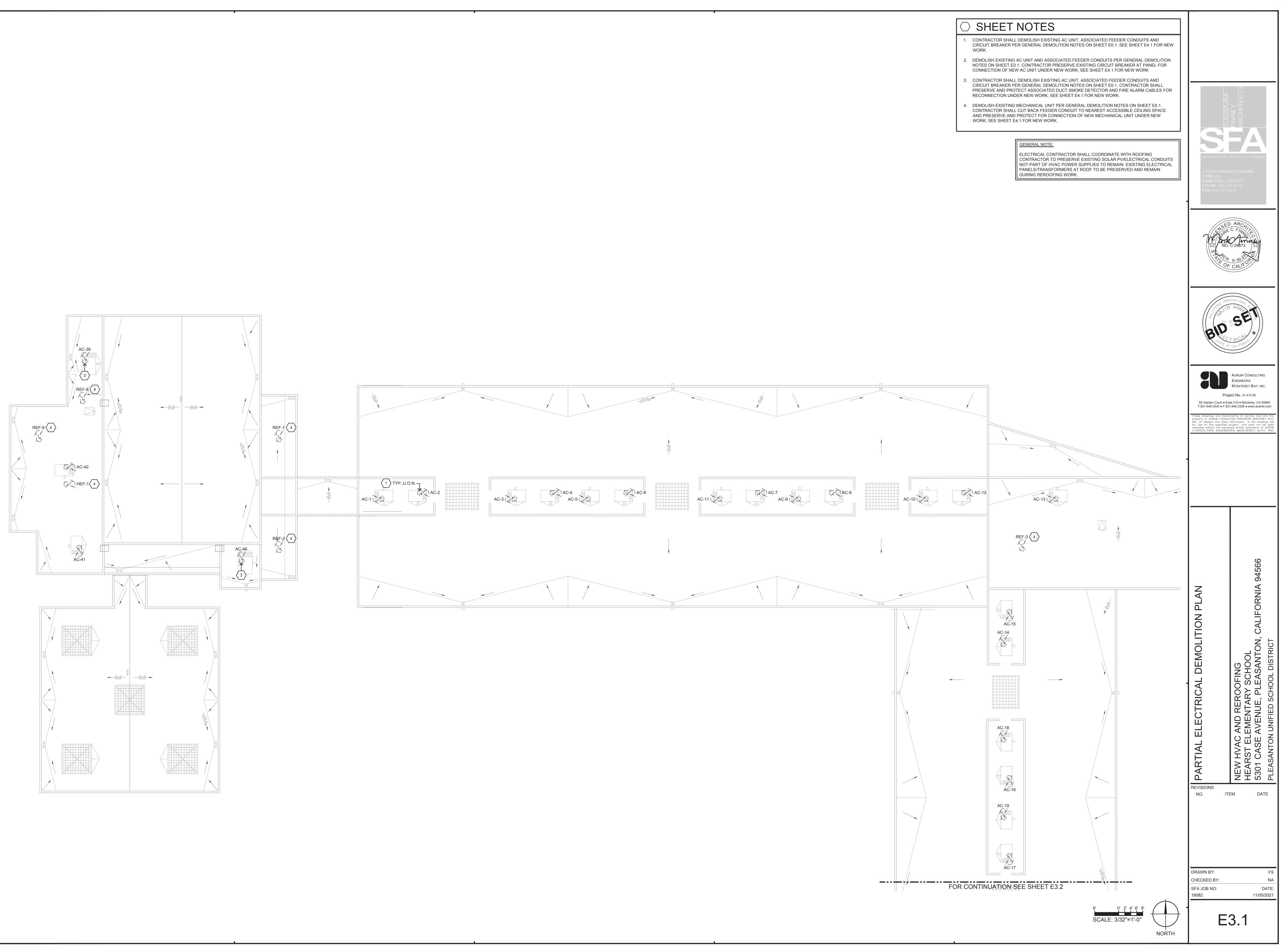


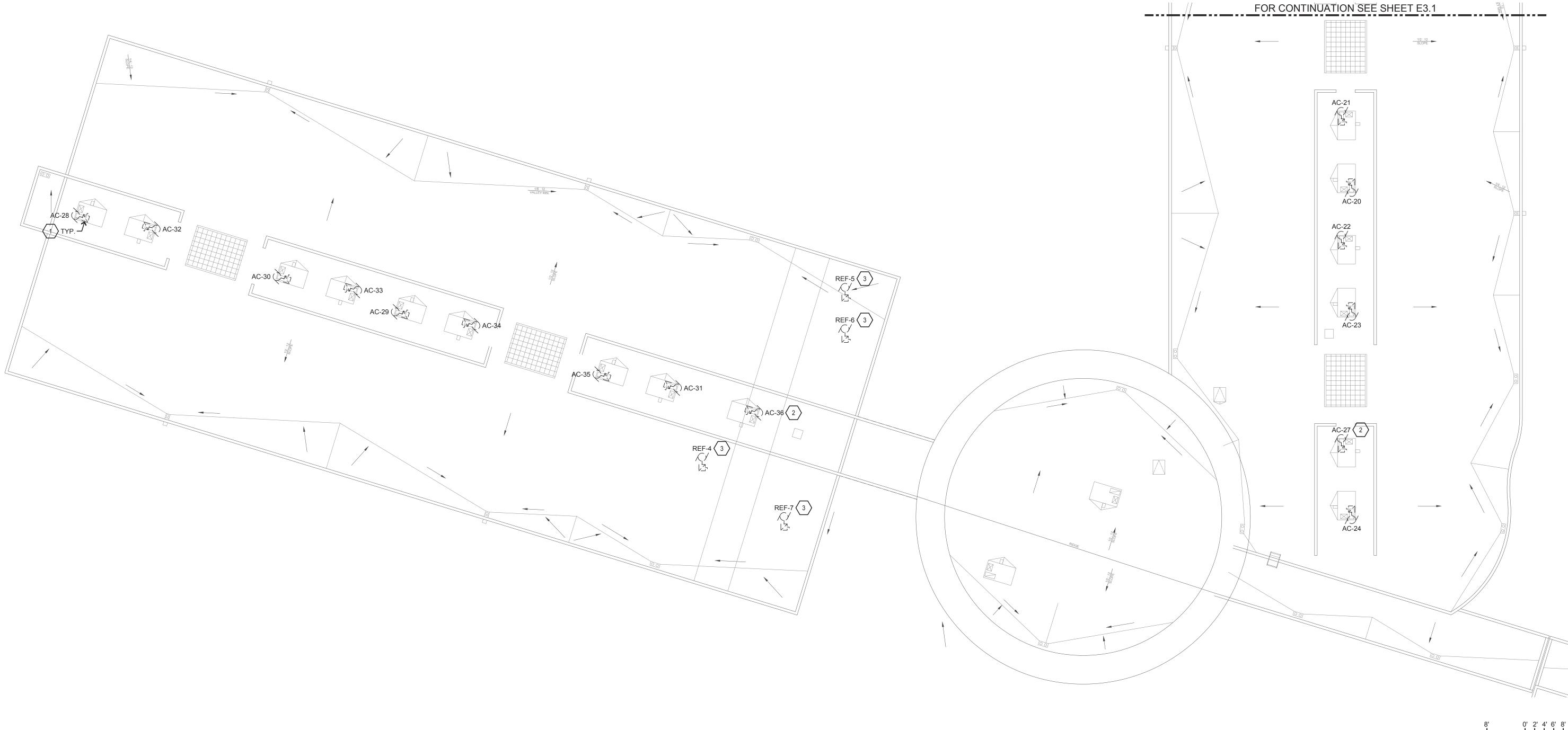


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20' 0' 10' 2 SCALE: 1"=20'-0"







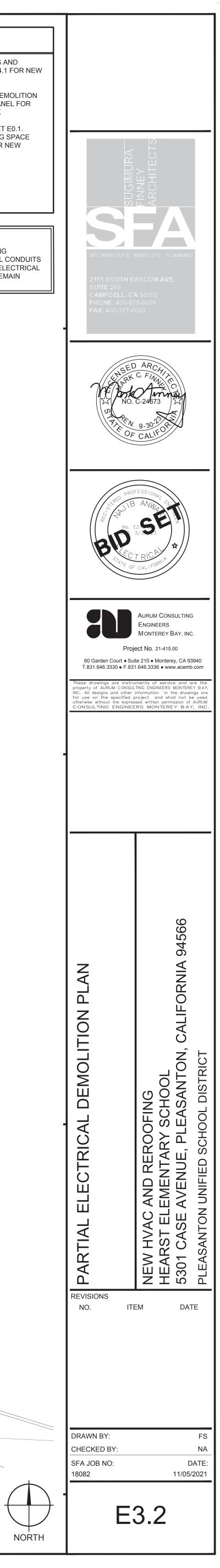
○ SHEET NOTES

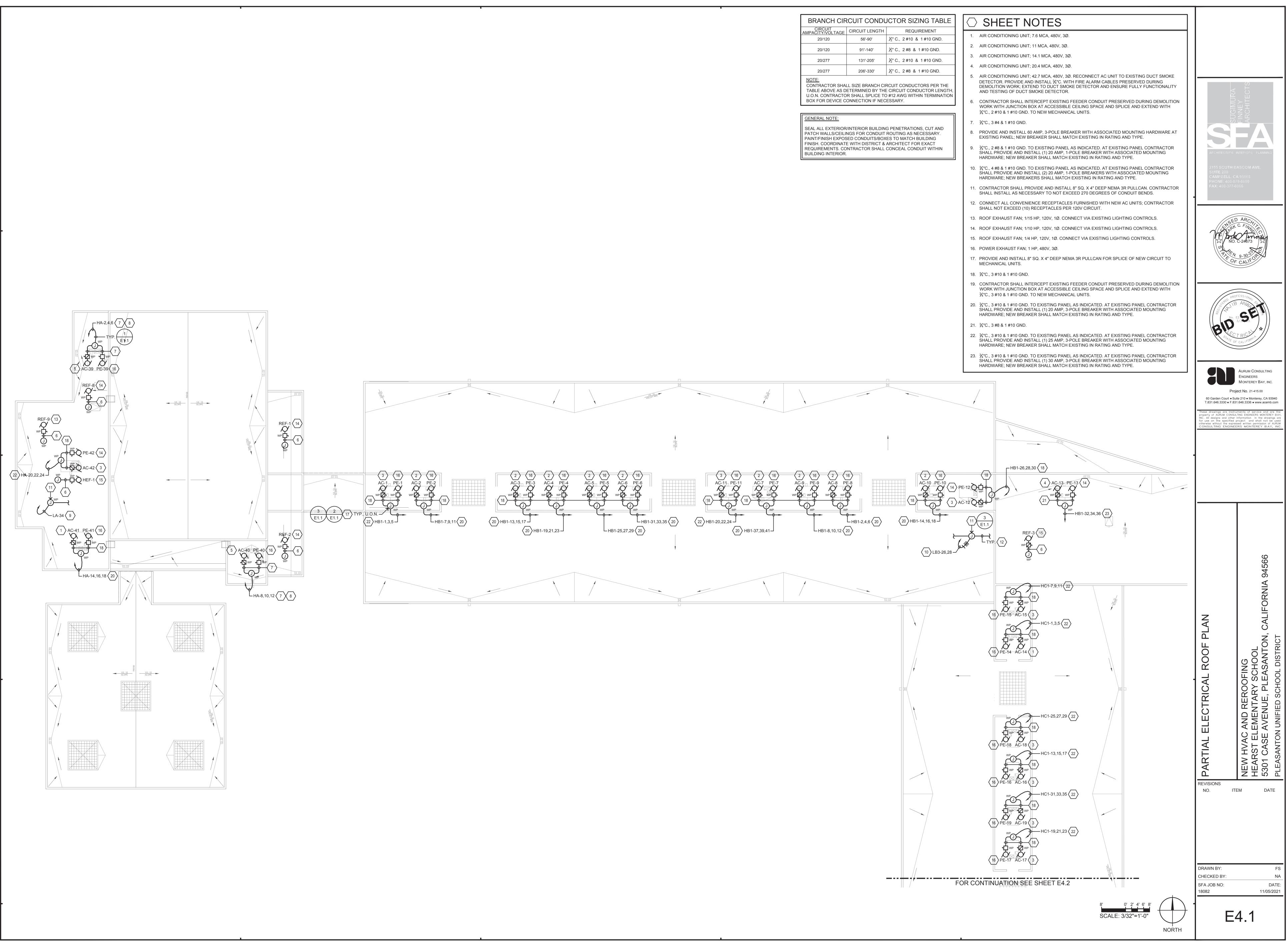
- CONTRACTOR SHALL DEMOLISH EXISTING AC UNIT, ASSOCIATED FEEDER CONDUITS AND CIRCUIT BREAKER PER GENERAL DEMOLITION NOTES ON SHEET E0.1. SEE SHEET E4.1 FOR NEW WORK.
- DEMOLISH EXISTING AC UNIT AND ASSOCIATED FEEDER CONDUITS PER GENERAL DEMOLITION NOTES ON SHEET E0.1. CONTRACTOR PRESERVE EXISTING CIRCUIT BREAKER AT PANEL FOR CONNECTION OF NEW AC UNIT UNDER NEW WORK; SEE SHEET E4.1 FOR NEW WORK
 DEMOLISH EXISTING MECHANICAL UNIT DED CENERAL DEMOLITION MOTEO ON CURET SECT.
- DEMOLISH EXISTING MECHANICAL UNIT PER GENERAL DEMOLITION NOTES ON SHEET E0.1. CONTRACTOR SHALL CUT BACK FEEDER CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE AND PRESERVE AND PROTECT FOR CONNECTION OF NEW MECHANICAL UNIT UNDER NEW WORK; SEE SHEET E4.1 FOR NEW WORK.

GENERAL NOTE:

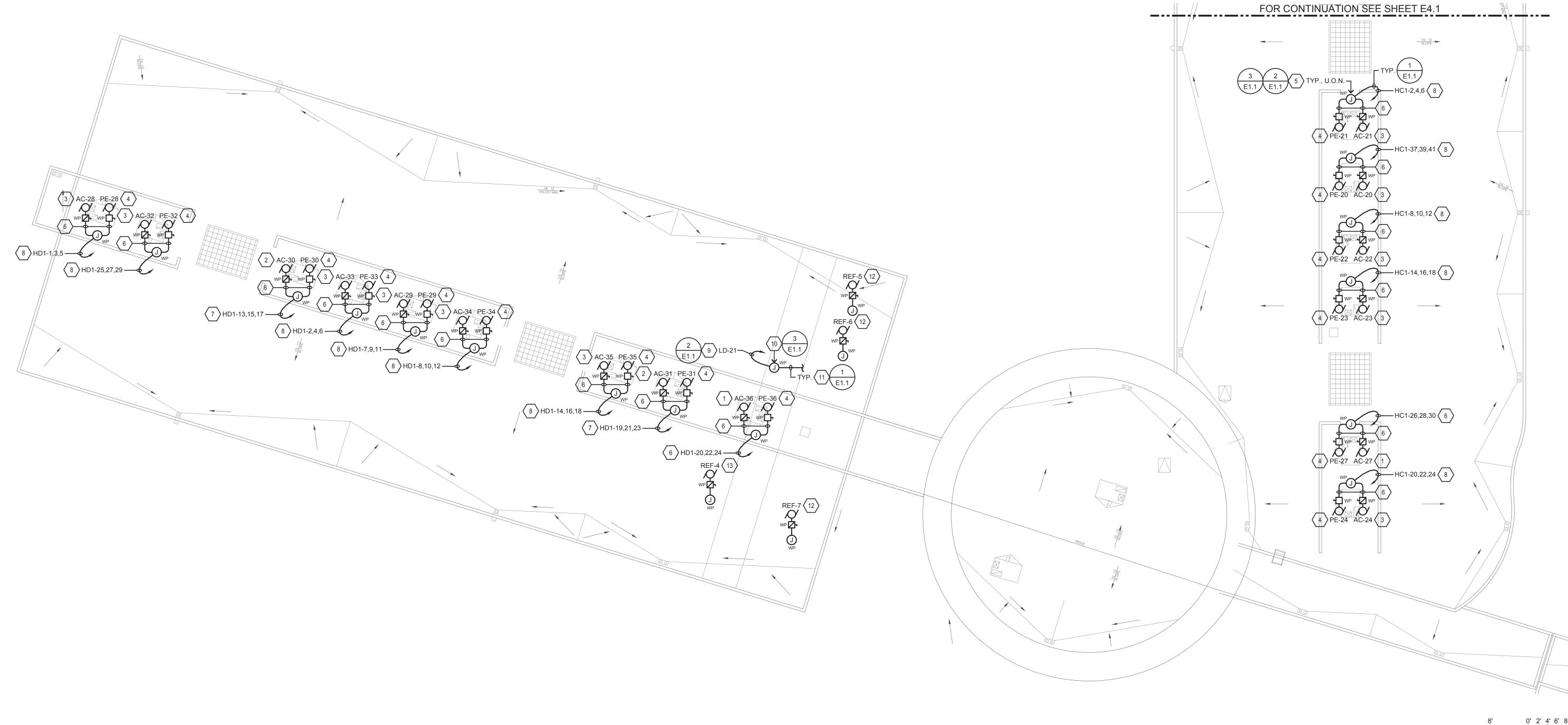
DURING REROOFING WORK.

ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ROOFING CONTRACTOR TO PRESERVE EXISTING SOLAR PV/ELECTRICAL CONDUITS NOT PART OF HVAC POWER SUPPLIES TO REMAIN. EXISTING ELECTRICAL PANELS/TRANSFORMERS AT ROOF TO BE PRESERVED AND REMAIN





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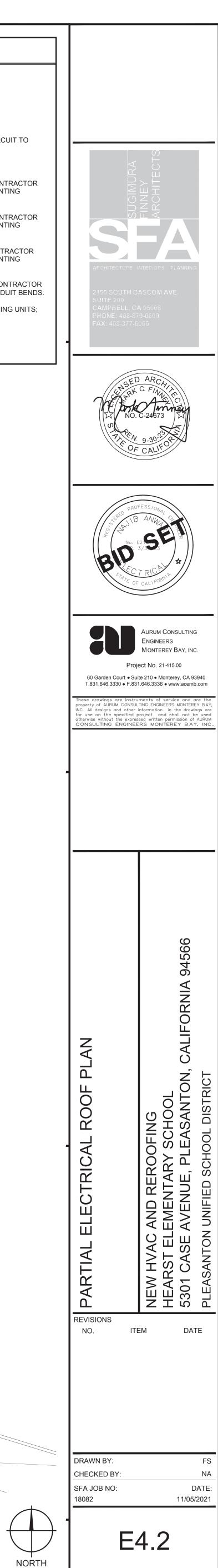


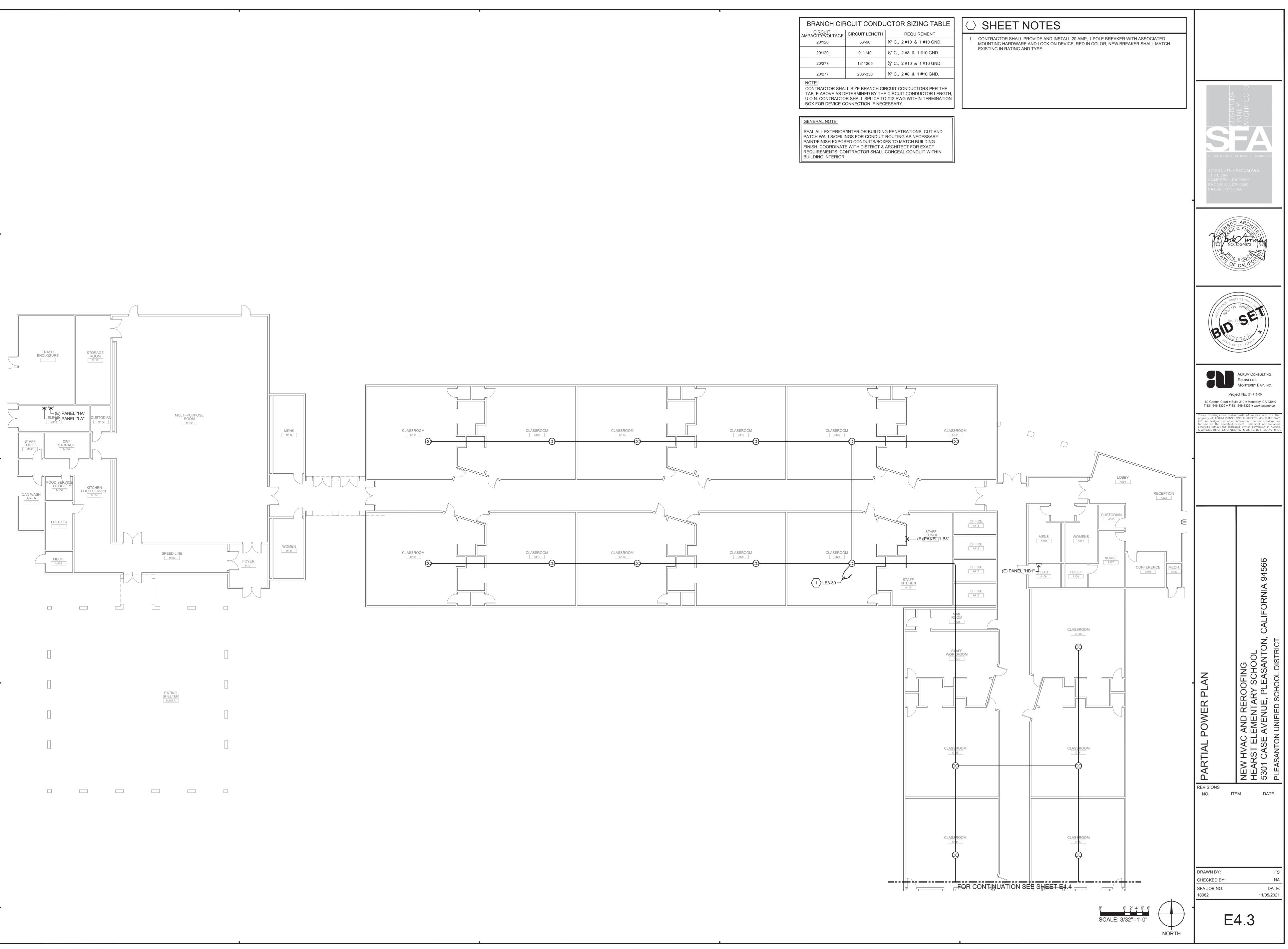
BRANCH CIRCUIT CONDUCTOR SIZING TABLE CIRCUIT AMPACITY/VOLTAGE CIRCUIT LENGTH REQUIREMENT 20/120 56'-90' ½" C., 2 #10 & 1 #10 GND. ½" C., 2 #8 & 1 #10 GND. 20/120 91'-140' ½" C., 2 #10 & 1 #10 GND. 20/277 131'-205' ½" C., 2 #8 & 1 #10 GND. 20/277 206'-330' NOTE: CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS PER THE TABLE ABOVE AS DETERMINED BY THE CIRCUIT CONDUCTOR LENGTH, U.O.N. CONTRACTOR SHALL SPLICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY. GENERAL NOTE:

SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS. CONTRACTOR SHALL CONCEAL CONDUIT WITHIN BUILDING INTERIOR.

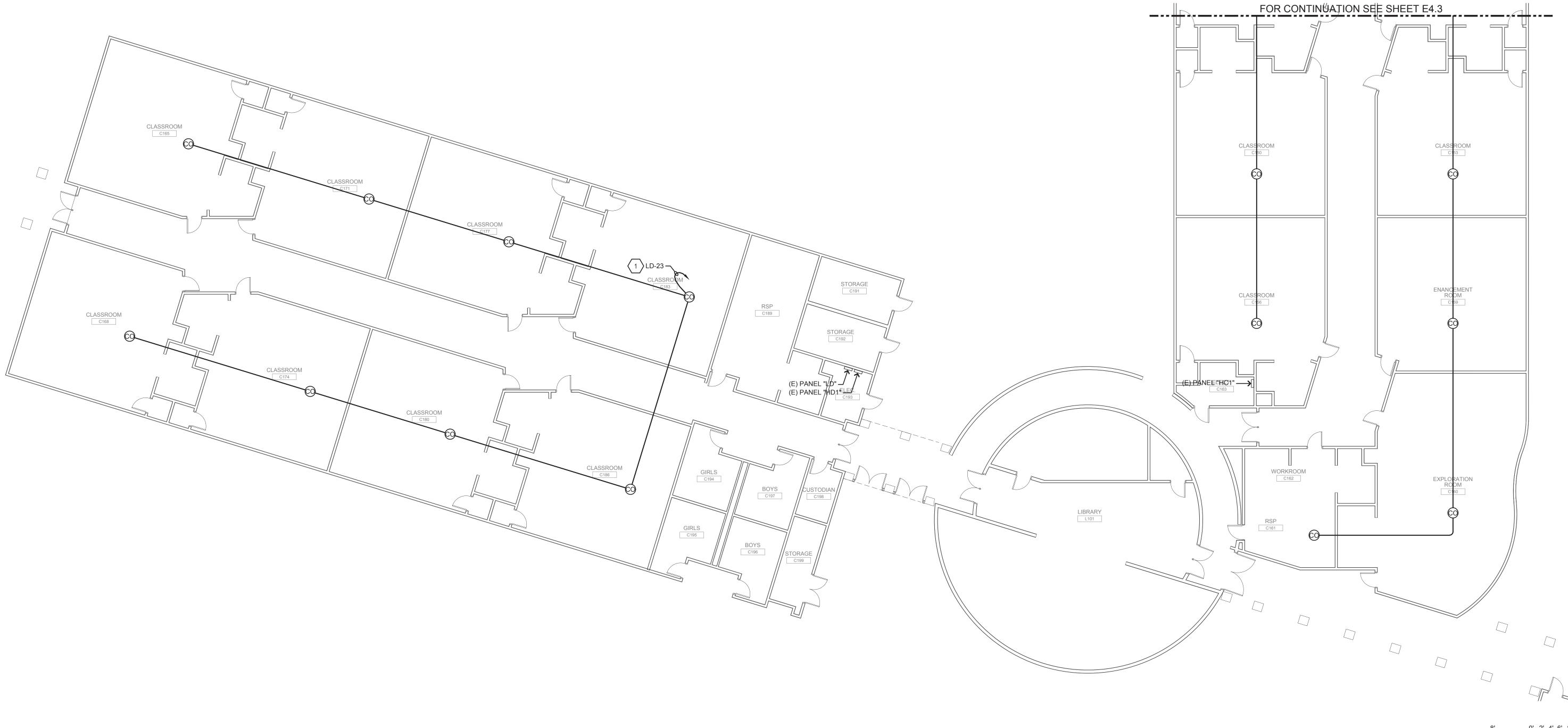
⊖ SHEET NOTES

- 1. AIR CONDITIONING UNIT; 7.6 MCA, 480V, 3Ø.
- 2. AIR CONDITIONING UNIT; 11 MCA, 480V, 3Ø.
- AIR CONDITIONING UNIT; 14.1 MCA, 480V, 3Ø.
 POWER EXHAUST FAN; 1 HP, 480V, 3Ø.
- 5. PROVIDE AND INSTALL 8" SQ. X 4" DEEP NEMA 3R PULLCAN FOR SPLICE OF NEW CIRCUIT TO MECHANICAL UNITS.
- 6. ¾"C., 3 #10 & 1 #10 GND.
- 7. ¾"C., 3 #10 & 1 #10 GND. TO EXISTING PANEL AS INDICATED. AT EXISTING PANEL CONTRACTOR SHALL PROVIDE AND INSTALL (1) 20 AMP, 3-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE; NEW BREAKER SHALL MATCH EXISTING IN RATING AND TYPE.
- ¾"C., 3 #10 & 1 #10 GND. TO EXISTING PANEL AS INDICATED. AT EXISTING PANEL CONTRACTOR SHALL PROVIDE AND INSTALL (1) 25 AMP, 3-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE; NEW BREAKER SHALL MATCH EXISTING IN RATING AND TYPE.
- ³/₄"C., 2 #8 & 1 #10 GND. TO EXISTING PANEL AS INDICATED. AT EXISTING PANEL CONTRACTOR SHALL PROVIDE AND INSTALL (1) 20 AMP, 1-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE; NEW BREAKER SHALL MATCH EXISTING IN RATING AND TYPE.
 10. CONTRACTOR SHALL PROVIDE AND INSTALL 8" SQ. X 4" DEEP NEMA 3R PULLCAN. CONTRACTOR
- SHALL INSTALL MINIMUM (2) AS NECESSARY TO NOT EXCEED 270 DEGREES OF CONDUIT BENDS.
 11. CONNECT ALL CONVENIENCE RECEPTACLES FURNISHED WITH NEW AIR CONDITIONING UNITS; (10) RECEPACLES MAX. PER 120V CIRCUIT.
- 12. EXHAUST FAN; 1/10 HP, 120V, 1Ø. CONNECT VIA EXISTING LIGHTING CONTROLS.
- 13. EXHAUST FAN; 1/4 HP, 120V, 1Ø. CONNECT VIA EXISTING LIGHTING CONTROLS.





BRANCH CIRCUIT CONDUCTOR SIZING TABLE							
CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	REQUIREMENT					
20/120	56'-90'	½" C., 2 #10 & 1 #10 GND.					
20/120	91'-140'	½" C., 2 #8 & 1 #10 GND.					
20/277	131'-205'	½" C., 2 #10 & 1 #10 GND.					
20/277	206'-330'	½" C., 2#8 & 1#10 GND.					
NOTE: CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS PER THE TABLE ABOVE AS DETERMINED BY THE CIRCUIT CONDUCTOR LENGTH, U.O.N. CONTRACTOR SHALL SPLICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY.							
GENERAL NOTE:							
SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND							

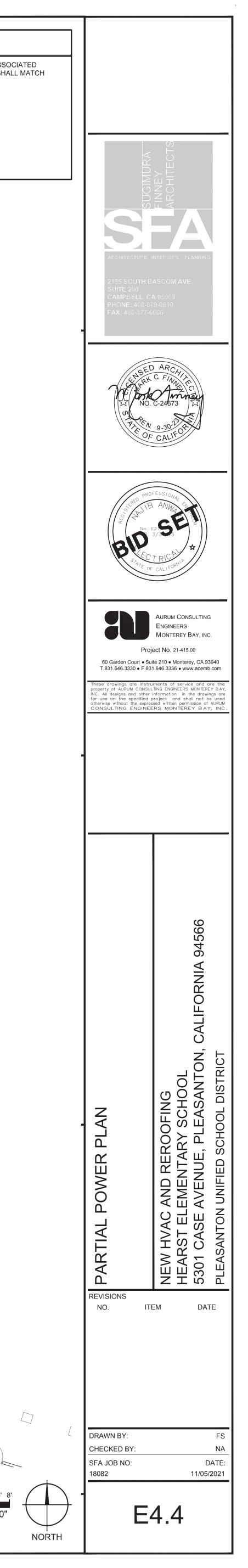


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GENERAL NOTE:						
SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS OUT AND						

SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS. CONTRACTOR SHALL CONCEAL CONDUIT WITHIN BUILDING INTERIOR.

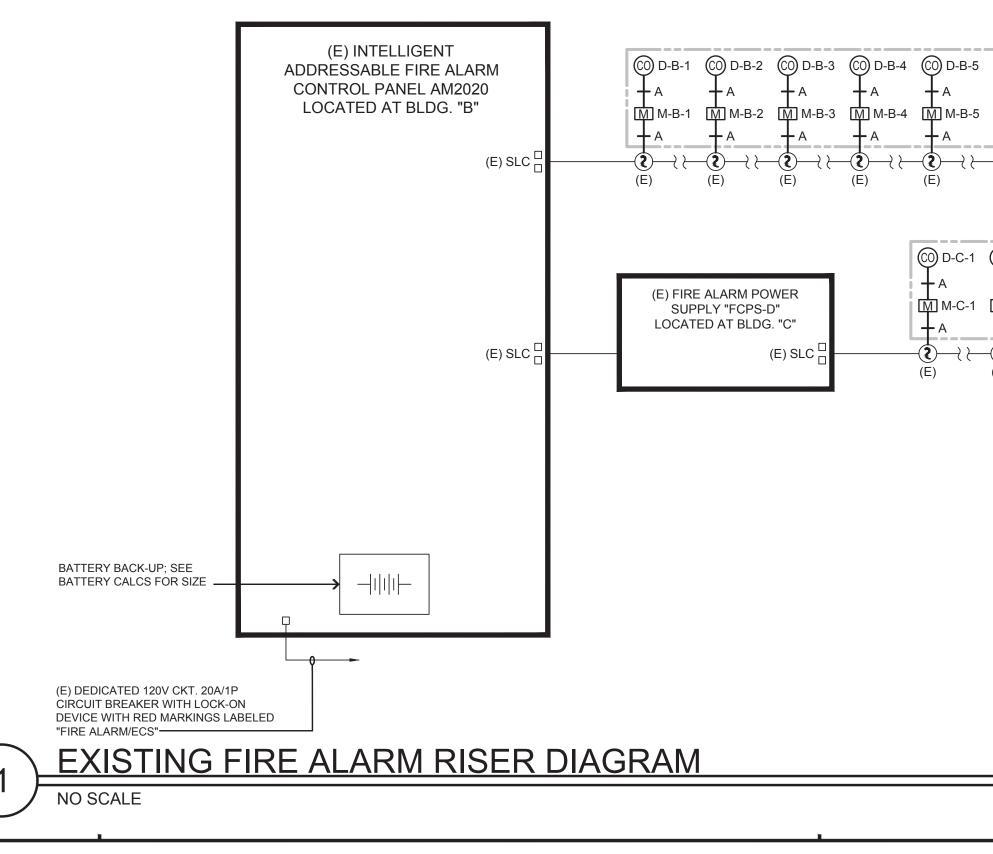
○ SHEET NOTES

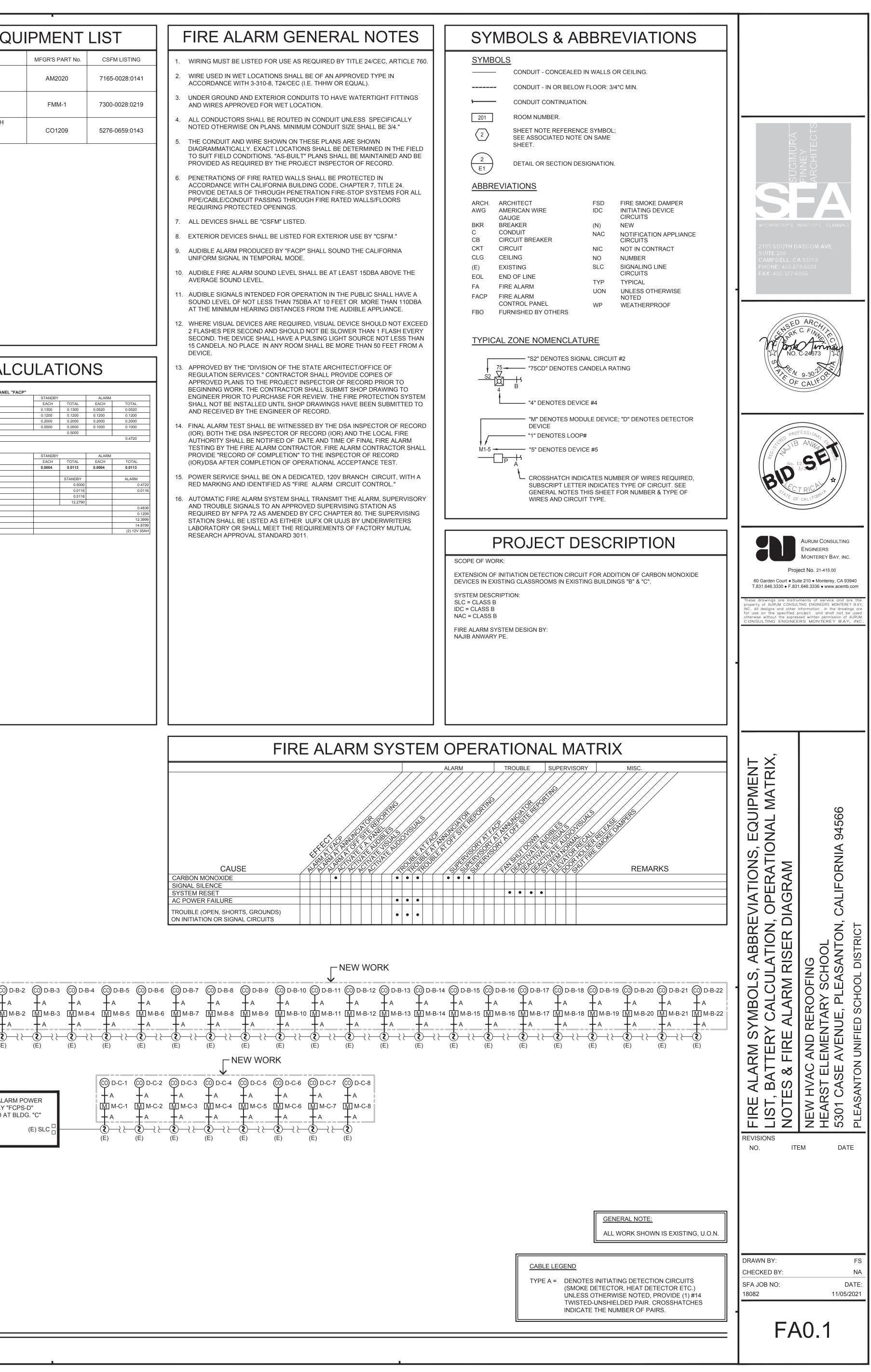
 CONTRACTOR SHALL PROVIDE AND INSTALL 20 AMP, 1-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE AND LOCK ON DEVICE, RED IN COLOR; NEW BREAKER SHALL MATCH EXISTING IN RATING AND TYPE.



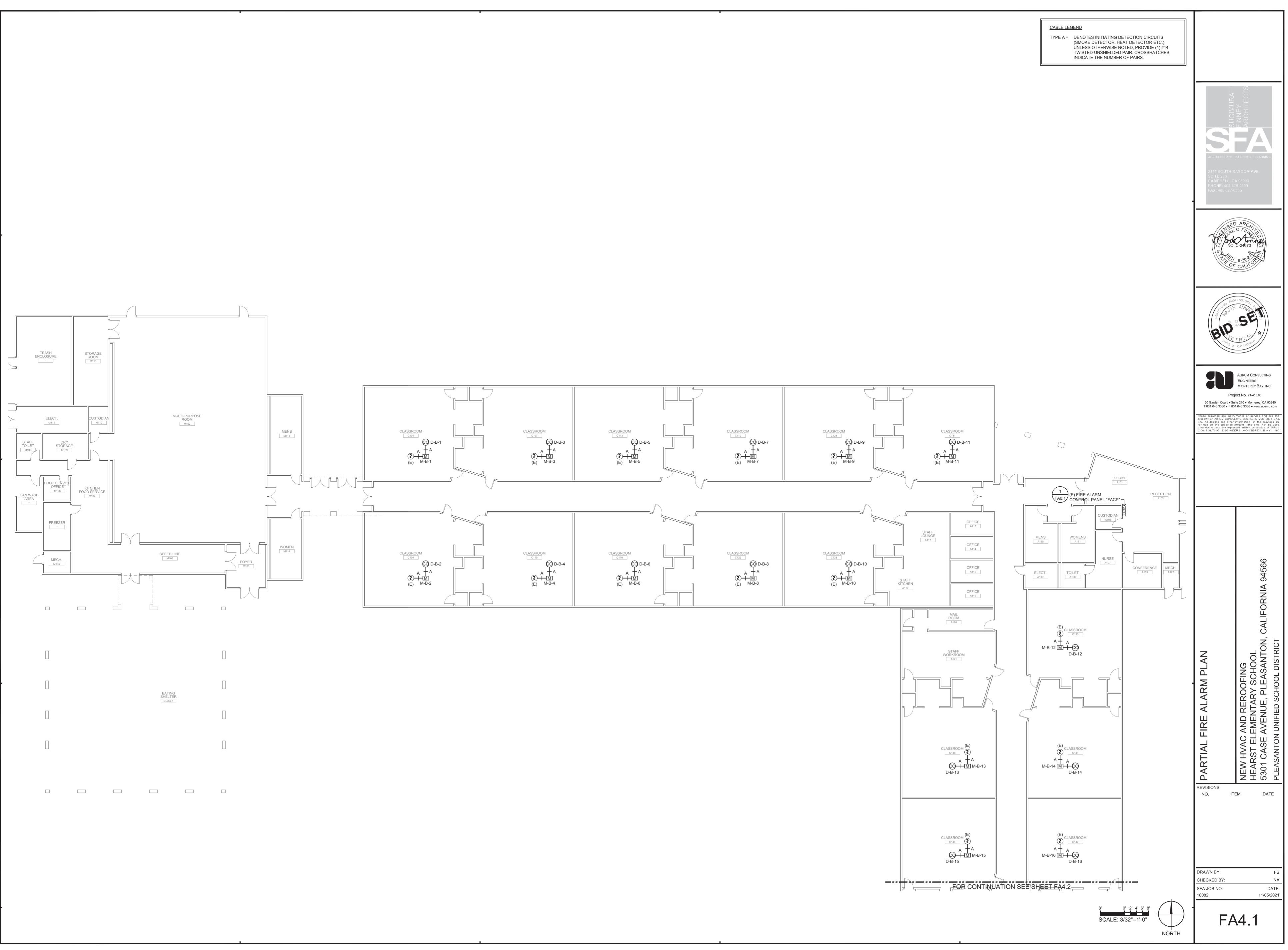
		-	
	FIRE ALARM EQUI	PMENT	LIS
SYMBOL	DESCRIPTION AND MODEL NUMBER	MFGR'S PART No.	С
FACP	(E) ADDRESSABLE FIRE ALARM CONTROL PANEL, NOTIFIER AM2020 SERIES.	AM2020	71
[M]	ADDRESSABLE MONITOR MODULE, NOTIFIER FMM SERIES.	FMM-1	73
\bigcirc	CARBON MONOXIDE DETECTOR WITH CONTACT RELAY, GENTEX CO1209.	CO1209	52

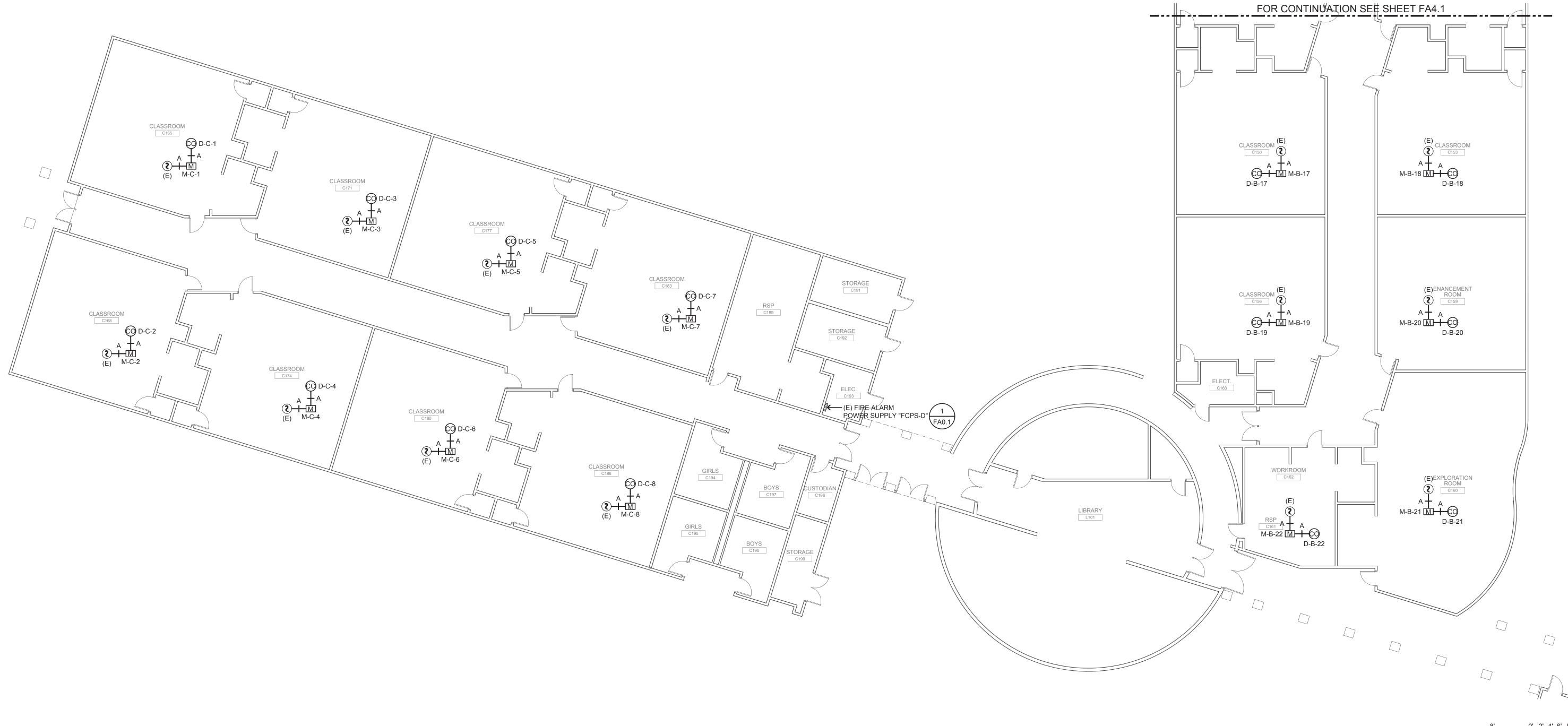
QTY	PRODUCT	DESCRIPTION	STANDBY		Al
	ID		EACH	TOTAL	EAG
1	AM2020	(E) PRIMARY INPUT POWER UNIT	0.1300	0.1300	0.05
1	CPU-2020	(E) PRIMARY DISPLAY	0.1200	0.1200	0.12
1	SLC	(E) SLC DEVICE ACTIVATION CURRENT	0.2000	0.2000	0.20
1	LCD-80	(E) LIQUID CRYTAL DISPLAY MODULE	0.0500	0.0500	0.100
		PANEL STANDBY CURRENT		0.5000	
		PANEL ALARM CURRENT			
QTY	PRODUCT	FIELD DEVICES DESCRIPTION	STANDBY		A
	ID	DESCRIPTION	EACH	TOTAL	EAC
30	FMM-1	ADDRESSABLE MONITOR MODULE	0.0004	0.0113	0.00
		DESCRIPTION		STANDBY	
		CONTROL PANEL		0.5000	
		FIELD DEVICES		0.0116	
		TOTAL STANDBY CURRENT		0.5116	
		X 24 HOUR STANDBY		12.2790	
		TOTAL ALARM CURRENT		•	
		15 MINUTES OF ALARM (X .25)			
		TOTAL BATTERY REQUIREMENT			
		SAFETY MARGIN (20%)			
		BATTERY SUPPLIED			





© D-C-1 ↓ A	© D-C-2	© D-C-3	© D-C-4 + A	© D-C-5	© D-C-6	© D-C-7	© D-C-8 → A
M M-C-1	M M-C-2	M M-C-3	M M-C-4	M M-C-5 → A	M M-C-6	[<u>М</u>] М-С-7 ➡ А	M M-C-8
2 → { } ←	- (E) (E)	- (E) (E)	- (E) → →	- (E) (E)	- (E) (E)	- (E) (E)	- (E)





CABLE LEGEND

TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

