

NEW HVAC AND REROOFING

VINTAGE HILLS ELEMENTARY SCHOOL

1125 CONCORD ST, PLEASANTON,CA 94566

PLEASANTON UNION 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.

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.

DAMAGE TO STRUCTURE OR SYSTEMS TO REMAIN
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 CONDITIONS
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 EQUIPMENT
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 CONNECTIONS
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.

ASBESTOS AND ASBESTOS PRODUCTS
THE OWNER/OPERATOR AND CONTRACTOR SHALL BE AWARE THAT BUILDINGS CONSTRUCTED PRIOR TO 1978 (OR THEREABOUT) 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 CONTAMINANT 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 DESIGNER ATTEMPT 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 ARCHITECT AND SUBCONTRACTOR. 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 6.

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", 09M 002-13 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 DETEIORATION 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.



BUILDING CODES AND STANDARDS:

2019	CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.	
2019	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. (2018 INTERNATIONAL BUILDING CODE, VOLUMES 1 AND 2, WITH 2019 CALIFORNIA AMENDMENTS.)	
2019	CALIFORNIA ELECTRIC CODE (CEC), PART 3, TITLE 24, C.C.R. (2018 NATIONAL ELECTRIC CODE WITH 2019 CALIFORNIA AMENDMENTS).	
2019	CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R. (2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS).	
2019	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R. (2018 UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS).	
2019	CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R. (2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS).	
2019	CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.	
2019	CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24, C.C.R.	
2019	ASME A17.1 (W/17-16)CSA B44-08 (ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS	
2010	ADA STANDARDS FOR ACCESSIBLE DESIGN (28 CFR PART 36 FOR TITLE II ENTITIES)	

CCR TITLE-19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 14	INSTALLATION OF STANDPIPE & HOSE SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEM	2017 EDITION
NFPA 20	STATIONARY FIRE PUMPS TO FIRE PROTECTION	2016 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CA AMENDED)	2016 EDITION
NFPA 25	INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS	2013 CALIFORNIA EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED)	2016 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS	2015 EDITION
NFPA 110	EMERGENCY AND STANDBY POWER SYSTEMS	2016 EDITION
NFPA 170	STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS	2018 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYMBOLS	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION

ICC 300	STANDARDS FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2017 EDITION
SFM 12-10-1	POWER OPERATED EXIT DOORS	
SFM 12-10-2	SINGLE POINT LATCHING OR LOCKING DEVICES	
SFM 12-10-3	EMERGENCY EXIT & PANIC HARDWARE	
UL 38	MANUAL OPERATING SIGNAL BOXES	1999/2005 EDITION
UL 288	SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	2009 EDITION
UL 268A	SMOKE DETECTORS DUCT APPLICATIONS	1998/2003 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 305	PANIC HARDWARE	2012 EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, AND ACCESSORIES	2003 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 864	CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	2003 EDITION
UL 1971	(W/ REVISIONS THROUGH DEC. 2014) SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 EDITION

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
	DETAIL
	INTERIOR ELEVATION
	CLASSROOM
	SPECIFIC NOTE
	DOOR DESIGNATION
	WINDOW DESIGNATION
	ADDENDUM REVISION
	CCD REVISION
	FINISH NUMBER
	EQUIPMENT LETTER
	CEILING HEIGHT
	WALL TYPE
	MATCH LINE
	ELEV. HEIGHT
	F.O.S., U.O.N.
	FACE OF FINISH

PROJECT SUMMARY

THE DEMOLITION OF EXISTING ROOFING AND THE INSTALLATION OF NEW BUILD UP ROOFING ON BUILDINGS 1, 2, & 4. THE REPLACEMENT OF HVAC UNITS AND THE PLATFORMS THAT THEY SIT ON.

THERE ARE NO DEFERRED SUBMITTALS FOR THIS PROJECT.

DESIGN TEAM

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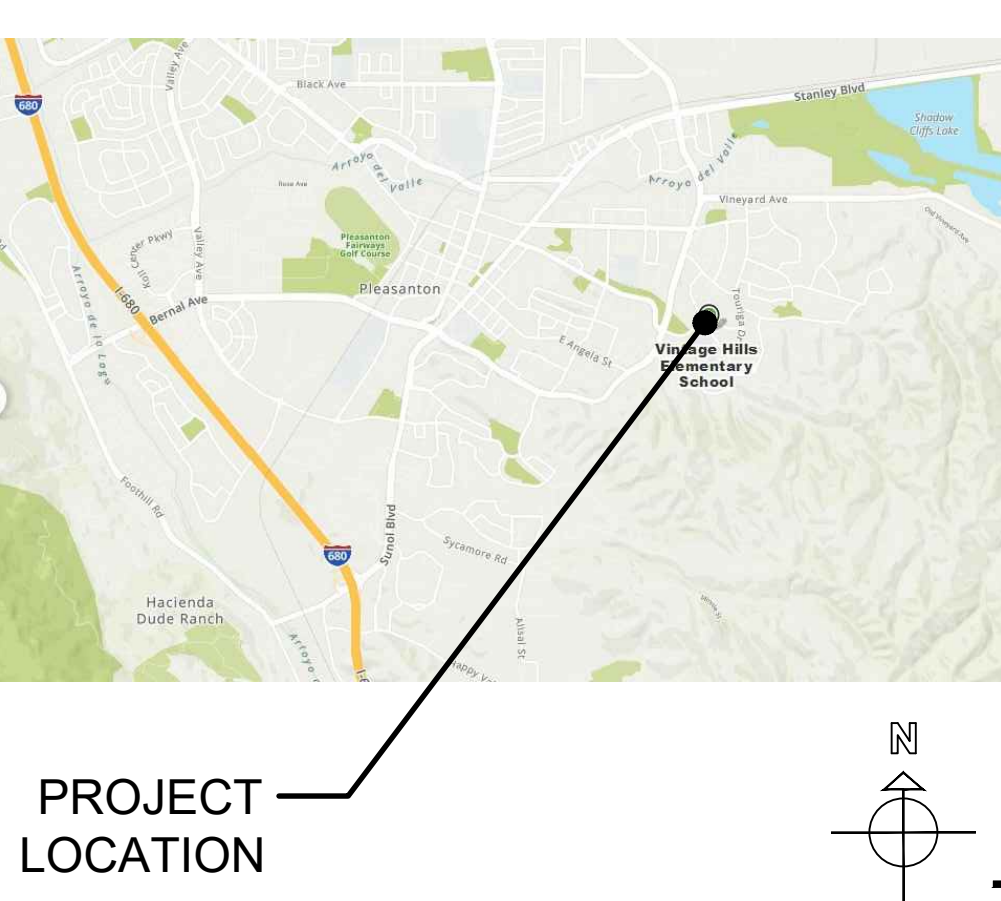
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SHEET TOTAL = 32

VICINITY MAP



PROJECT LOCATION

TITLE SHEET

NO.	ITEM	DATE
1		

DRAWN BY: KNU
CHECKED BY: MB
SFA JOB NO: 20087
DATE: 11/16/2021

T1

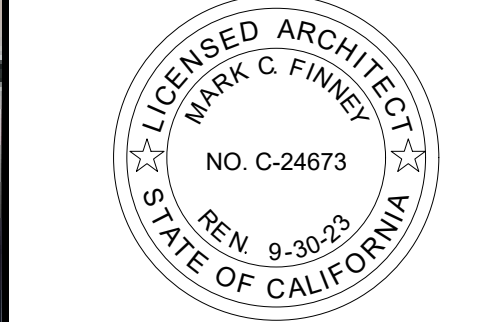
(DSA STAMP AREA)

SUGIMURA FINNEY ARCHITECTS

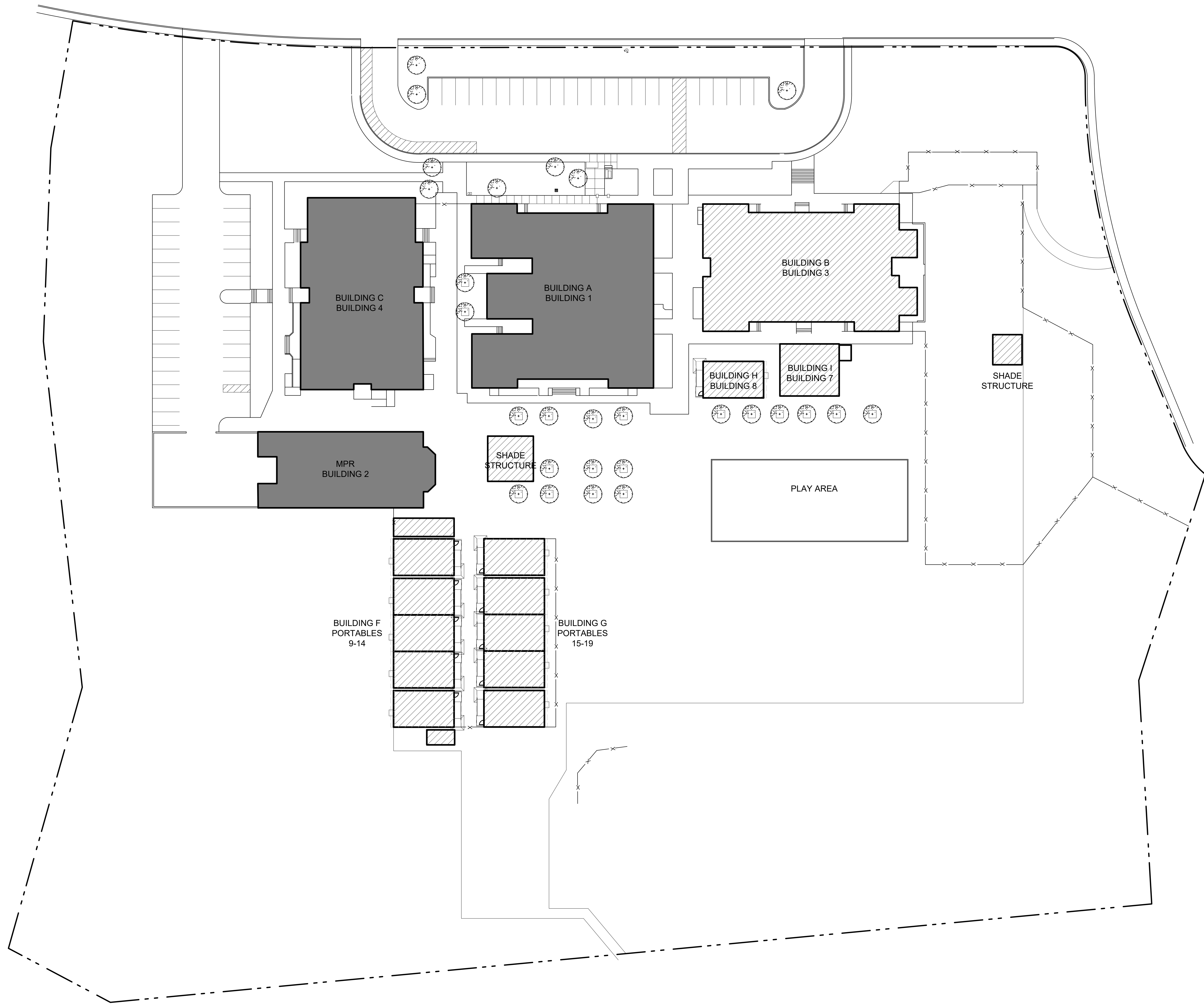
SFA

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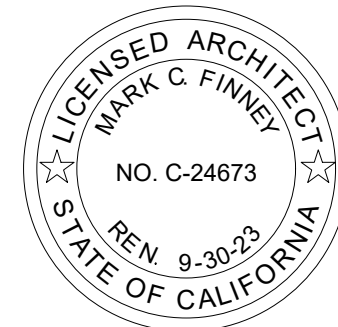
1 SITE PLAN



GENERAL NOTES

- A. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR EXTENT OF OTHER RELATED WORK.

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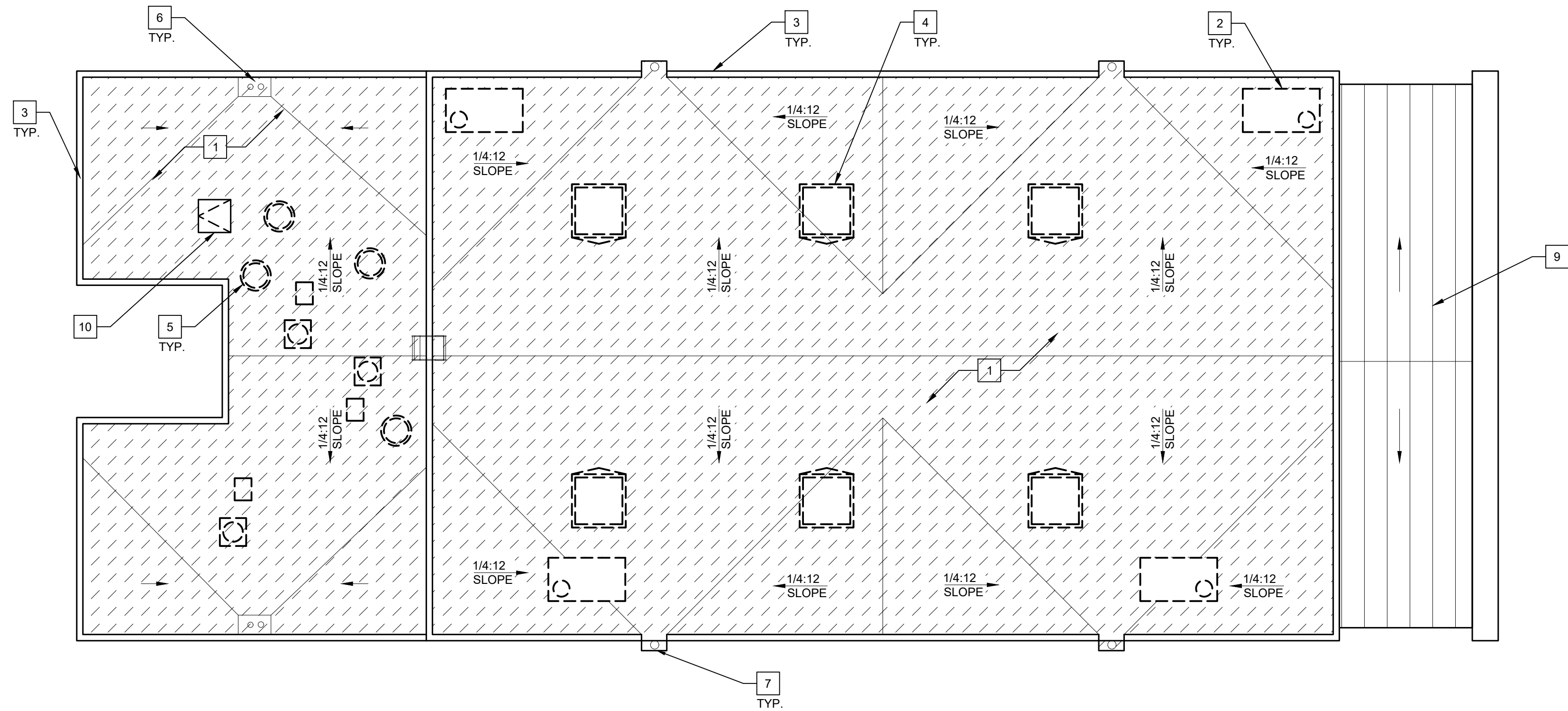


SITE PLAN

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

REVISIONS	NO.	ITEM	DATE
1			
DRAWN BY:	KNJ		
CHECKED BY:	MB		
SFA JOB NO:	20087	DATE:	11/16/2021

A0.2



2 DEMOLITION ROOF PLAN - BUILDING 2

1/8" = 1'-0"
0 2' 4' 8' 16' 24'



1 DEMOLITION ROOF PLAN - BUILDING 1

1/8" = 1'-0"
0 2' 4' 8' 16' 24'

GENERAL NOTES

- 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.
- 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.
- COORDINATE SLEEPER LOCATIONS WITH MECHANICAL, PLUMBING, AND/OR ELECTRICAL AS REQUIRED. SEE DETAIL 5/A9.1.
- CONTRACTOR TO ASSUME 10% OF EXISTING ROOF DECKING, FASCIA AND RIM JOIST IS DAMAGED AND WILL NEED REPLACEMENT. REPLACEMENT IS TO BE IN KIND, IN LOCATION.
- CONTRACTOR TO CLEAR ALL DRAINAGE SYSTEMS AS REQUIRED AND TEST FOR FREE FLOW OF ALL OF DRAINAGE.

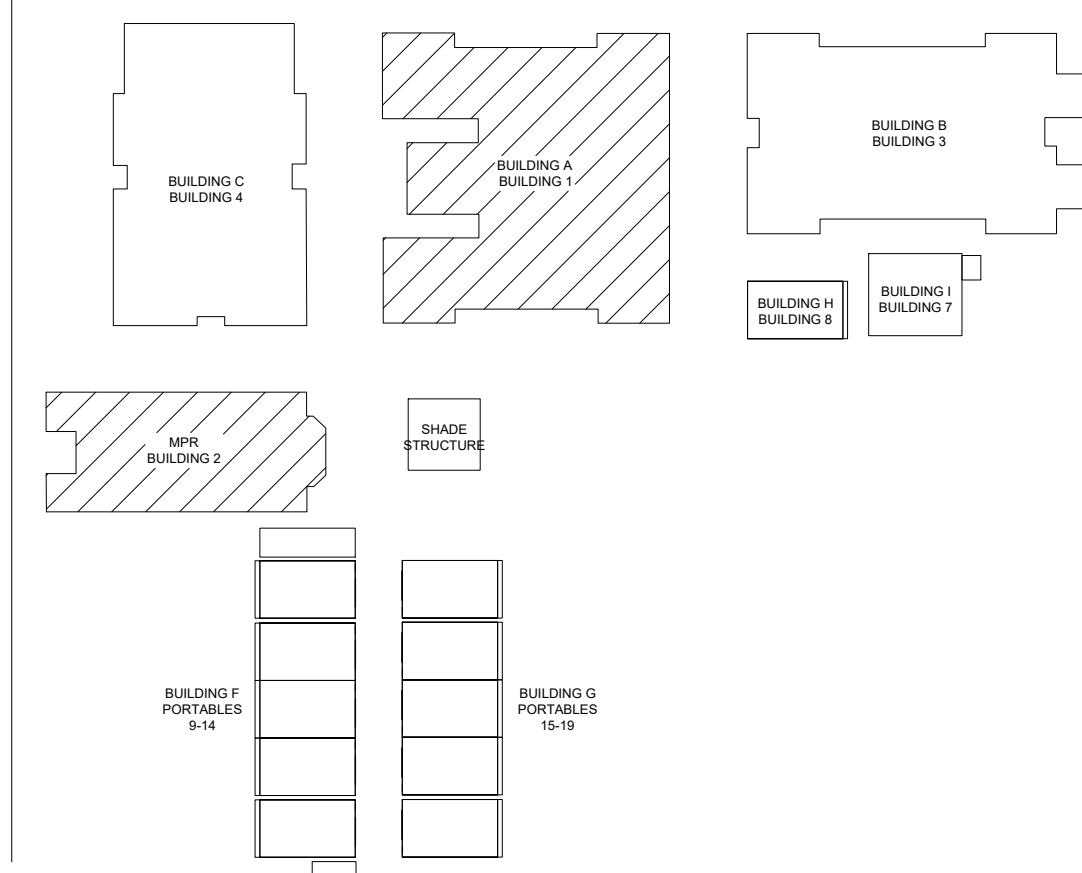
DEMOLITION ROOF PLAN NOTES

- REMOVE (E) ROOFING TO EXPOSE SHEATHING, INCLUDING SIDE OF PARAPET WALL. PREPARE FOR NEW ROOFING SYSTEM, SEE SPECS.
- REMOVE (E) AC UNITS, PREPARE AREA FOR NEW HVAC UNITS, SEE MECHANICAL DRAWINGS.
- REMOVE (E) PARAPET FLASHING AND COPING.
- REMOVE (E) SKYLIGHT CAPS AND CURBS. OPENING IN ROOF TO BE INFILLED AND NEW ROOFING SYSTEM OVER PATCH. SEE DETAIL 6/A9.1.
- REMOVE (E) EXHAUST FANS AND RELIEF HOODS, PREPARE FOR NEW FANS AND HOODS, SEE MECHANICAL DRAWINGS.
- REMOVE (E) ROOF DRAINS, PREPARE FOR NEW DRAINS.
- REMOVE (E) GUTTER, DOWNSPOUT TO REMAIN.
- REMOVE (E) CAP FLASHING AND EXPANSION JOINT, PREP FOR NEW EXPANSION JOINT.
- (E) METAL PANEL ROOF TO REMAIN, NOT IN SCOPE OF WORK.
- (E) ROOF ACCESS HATCH TO REMAIN, INSTALL RETRACTABLE SAFETY POST TO (E) LADDER IF ONE IS NOT PRESENT.

GRAPHIC KEY

- EXISTING TO BE DEMOLISHED
- EXISTING ROOFING TO BE REMOVED

BUILDING KEY



(DSA STAMP AREA)



DEMOLITION ROOF PLANS BUILDINGS 1 & 2

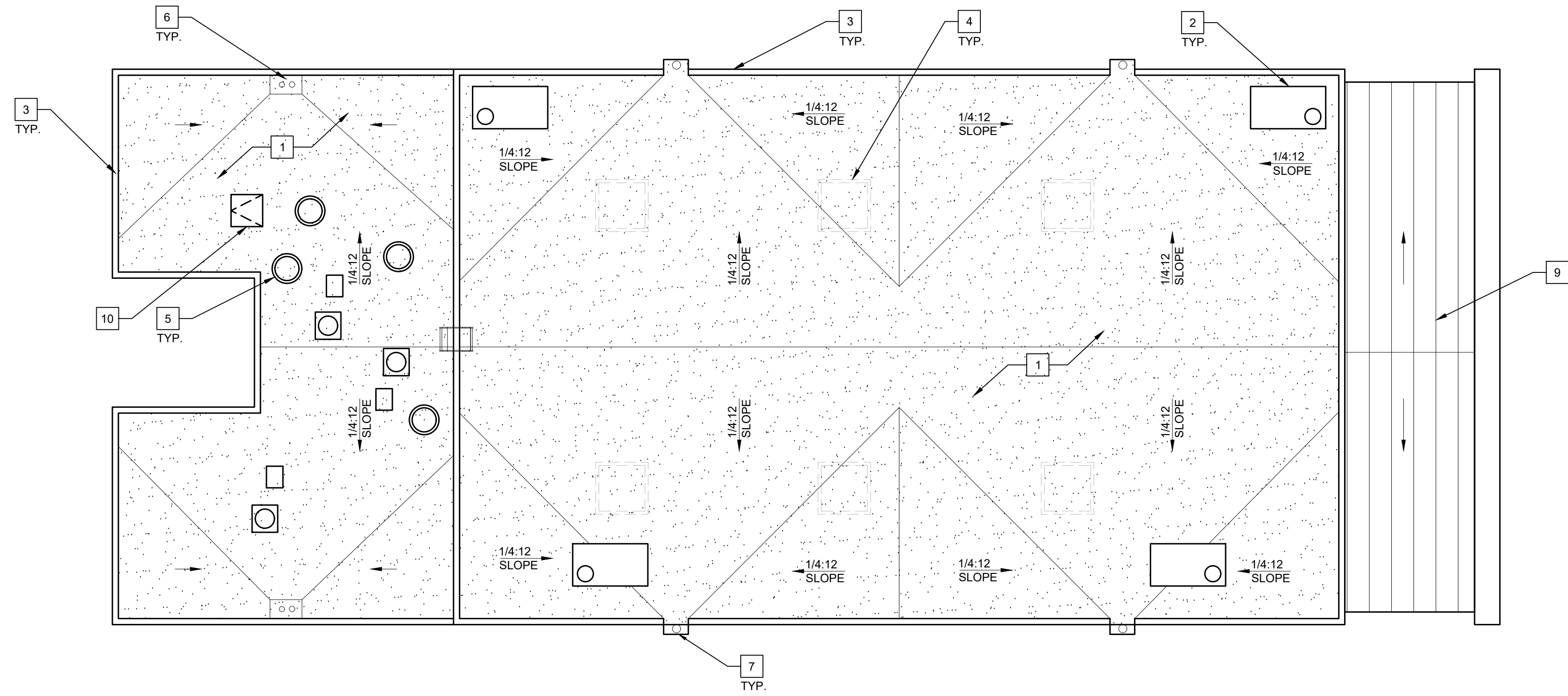
NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

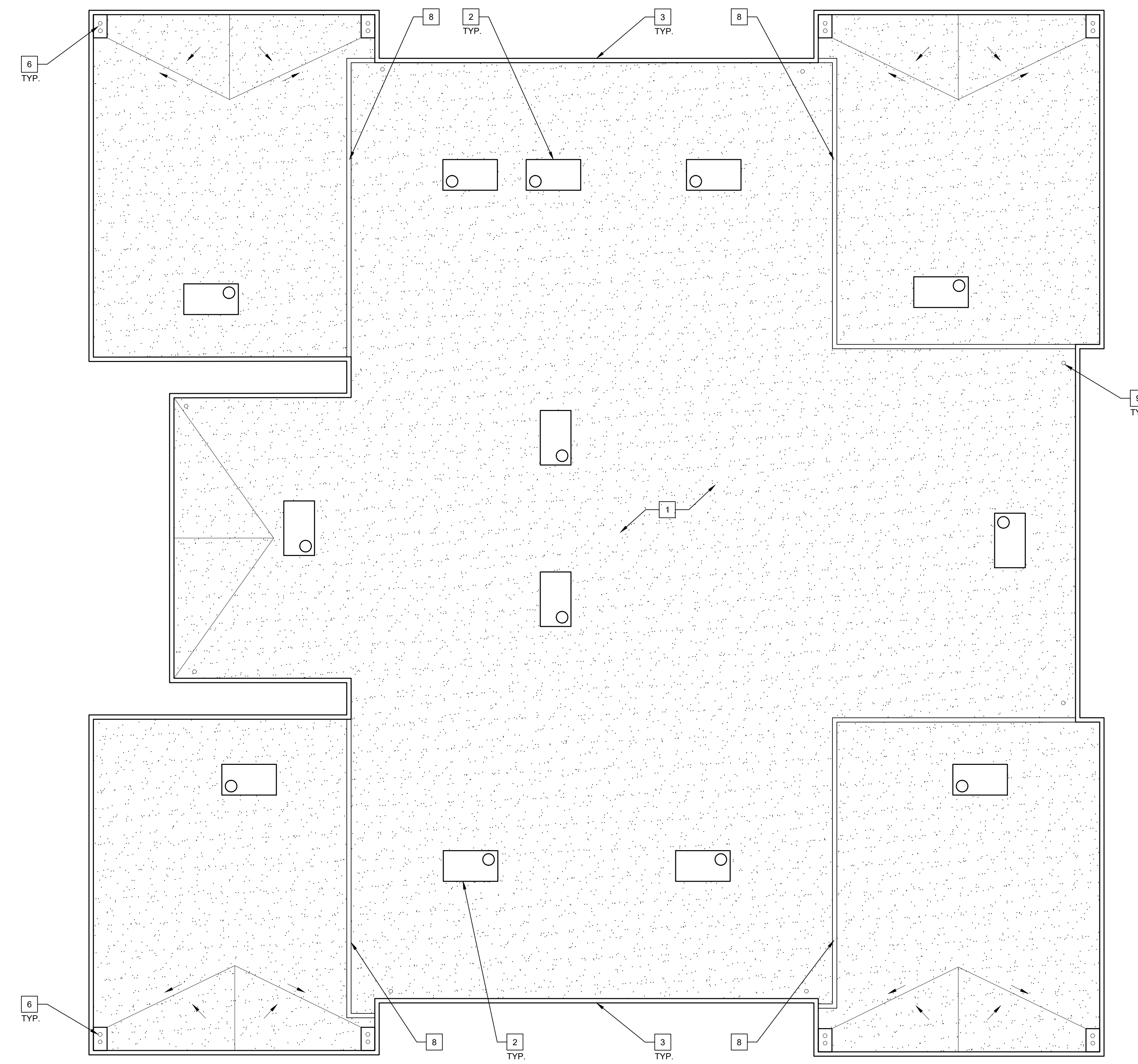
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SFA JOB NO: 20087
DATE: 11/16/2021

A4.1



2 NEW ROOF PLAN - BUILDING 2



1 NEW ROOF PLAN - BUILDING 1

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. COORDINATE SLEEPER LOCATIONS WITH MECHANICAL, PLUMBING, AND/OR ELECTRICAL AS REQUIRED. SEE DETAIL 9/A9.1.

NEW ROOF PLAN NOTES

1. (N) ROOFING SYSTEM, INCLUDING INSIDE OF PARAPET WALL. SEE SPECS.

2. (N) AC UNITS. SEE DETAIL 11/A9.1 AND MECHANICAL DRAWINGS.

3. (N) PARAPET FLASHING AND COPING. SEE DETAIL 2/A9.1. PAINT AS REQUIRED BY DISTRICT.

4. FRAME AND INFILL SKYLIGHT OPENING WITH IN KIND FRAMING AND SHEATHING AND APPLY NEW ROOFING SYSTEM OVER PATCH. SEE DETAIL 6/A9.1

5. (N) EXHAUST FANS AND RELIEF HOODS. SEE 9/A9.1 AND MECHANICAL DRAWINGS.

6. (N) ROOF DRAIN AND OVERFLOW. SEE DETAIL 3/A9.1.

7. (N) CONDUCTOR HEAD/GUTTER CONNECTED TO (E) DOWNSPOUT. SEE DETAIL 12/A9.1.

8. (N) EXPANSION JOINT AND CAP FLASHING. SEE DETAIL 11/A9.1.

9. (E) ROOF DRAIN PIPE. CONTRACTOR TO CHECK ROOF SURFACE AND PARAPET WALL FOR ALL DRAIN PIPE AND CLEAR OF ANY OBSTRUCTIONS INCLUDING LOOSE DEBRIS AND FROM PREVIOUS REROOFING MATERIALS.

GRAPHIC KEY

--- EXISTING TO BE DEMOLISHED

NEW BUILT-UP ROOFING

BUILDING KEY

REVISIONS

NO.	ITEM	DATE
1		

DRAWN BY: KNU
CHECKED BY: MB
SFA JOB NO: 20087
DATE: 11/16/2021

A4.2

(DSA STAMP AREA)

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LICENSED ARCHITECT
MARK C FINNEY
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STATE OF CALIFORNIA

NEW ROOF PLAN
BUILDINGS 1 & 2

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

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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. COORDINATE SLEEPER LOCATIONS WITH MECHANICAL, PLUMBING, AND/OR ELECTRICAL AS REQUIRED. SEE DETAIL 9/A9.1.

(DSA STAMP AREA)



DEMOLITION ROOF PLAN NOTES

1. REMOVE (E) ROOFING TO EXPOSE SHEATHING, INCLUDING SIDE OF PARAPET WALL. PREPARE FOR NEW ROOFING SYSTEM, SEE SPECS.
2. REMOVE (E) AC UNITS, PREPARE AREA FOR NEW HVAC UNITS, SEE MECHANICAL DRAWINGS.
3. REMOVE (E) PARAPET FLASHING AND COPING.
4. REMOVE AND SALVAGE (E) SKYLIGHT. REMOVE (E) CURBS. PREPARE FOR (N) TALLER CURBS.
5. REMOVE (E) EXHAUST FANS AND RELIEF HOODS, PREPARE FOR NEW FANS AND HOODS, SEE MECHANICAL DRAWINGS.
6. REMOVE (E) ROOF DRAINS, PREPARE FOR NEW DRAINS.
7. REMOVE (E) CAP FLASHING AND EXPANSION JOINT, PREP FOR NEW EXPANSION JOINT.
8. (E) ROOF ACCESS HATCH TO REMAIN.

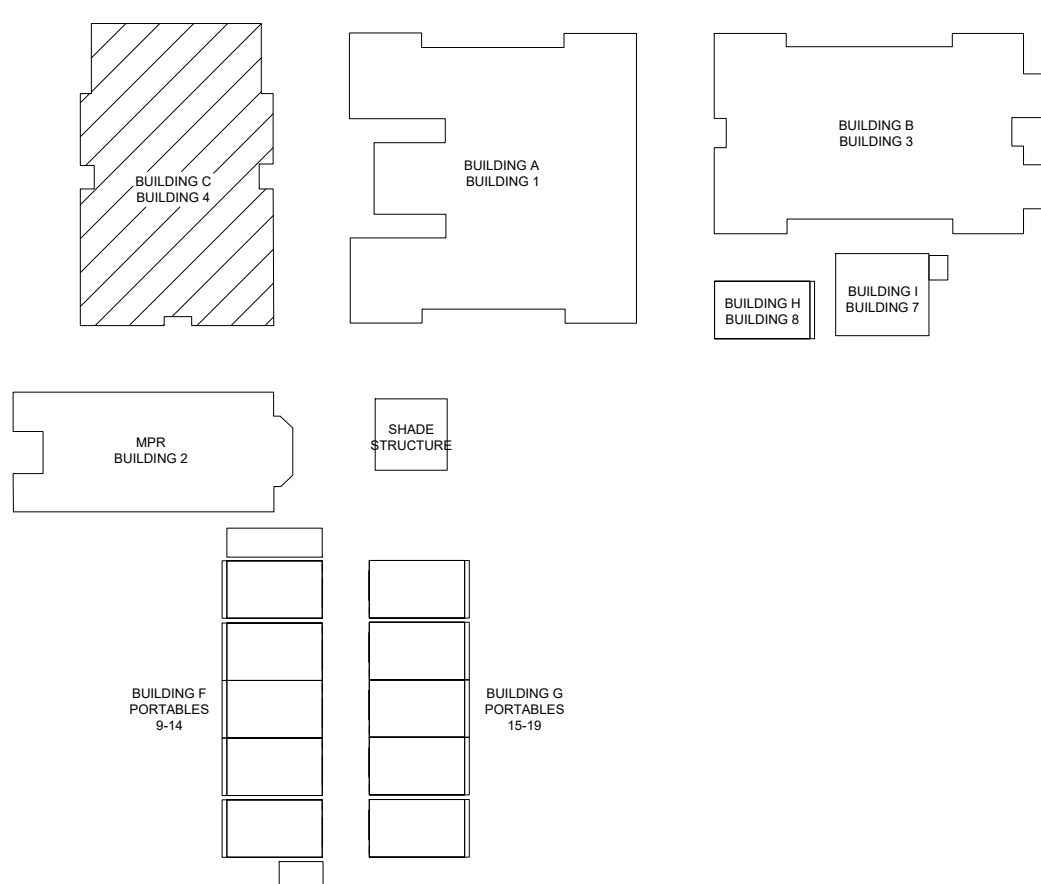
NEW ROOF PLAN NOTES

1. (N) ROOFING SYSTEM, INCLUDING INSIDE OF PARAPET WALL, SEE SPECS.
2. (N) AC UNITS, SEE DETAIL 1/A9.1 AND MECHANICAL DRAWINGS.
3. (N) PARAPET FLASHING AND COPING, SEE DETAIL 2/A9.1. PAINT AS REQUIRED BY DISTRICT.
4. FRAME (N) TALLER SKYLIGHT CURBS AND RE-INSTALL SALVAGED SKYLIGHTS, SEE DETAILS 7 & 8/A9.1.
5. (N) EXHAUST FANS AND RELIEF HOODS, SEE DETAIL 9/A9.1 AND MECHANICAL DRAWINGS.
6. (N) ROOF DRAINS, SEE DETAIL 3/A9.1.
7. (N) EXPANSION JOINT AND CAP FLASHING, SEE DETAIL 11/A9.1.
8. (E) ROOF ACCESS HATCH TO REMAIN, SEE DETAIL 8/A9.1 FOR NEW FLASHING.

GRAPHIC KEY

- EXISTING TO BE DEMOLISHED
- EXISTING ROOFING TO BE REMOVED
- NEW BUILT-UP ROOFING

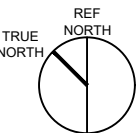
BUILDING KEY



2 NEW ROOF PLAN - BUILDING 4

1/8" = 1'-0"

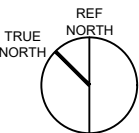
0 2' 4' 8' 16' 24'



1 DEMOLITION ROOF PLAN - BUILDING 4

1/8" = 1'-0"

0 2' 4' 8' 16' 24'



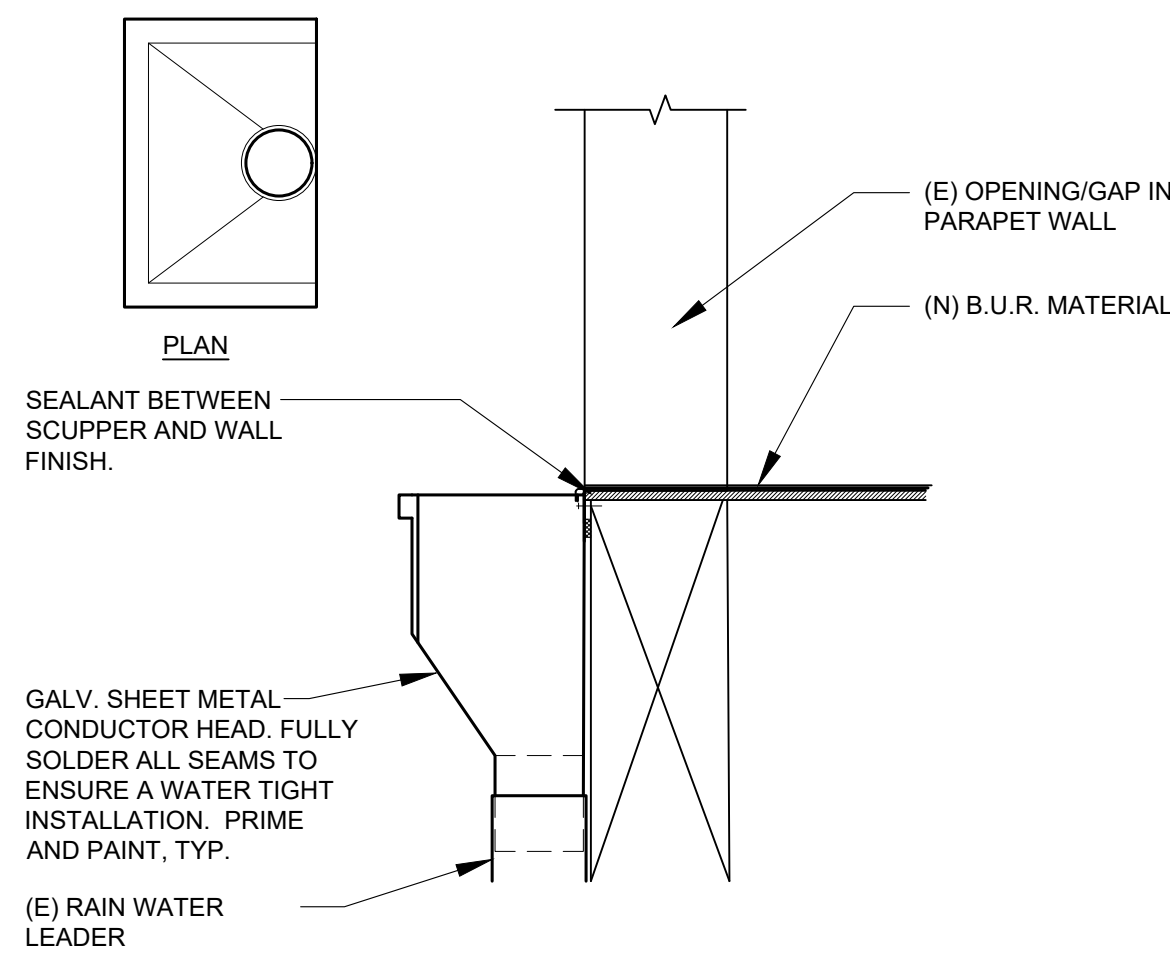
DEMOLITION AND NEW ROOF PLANS
BUILDINGS 4

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

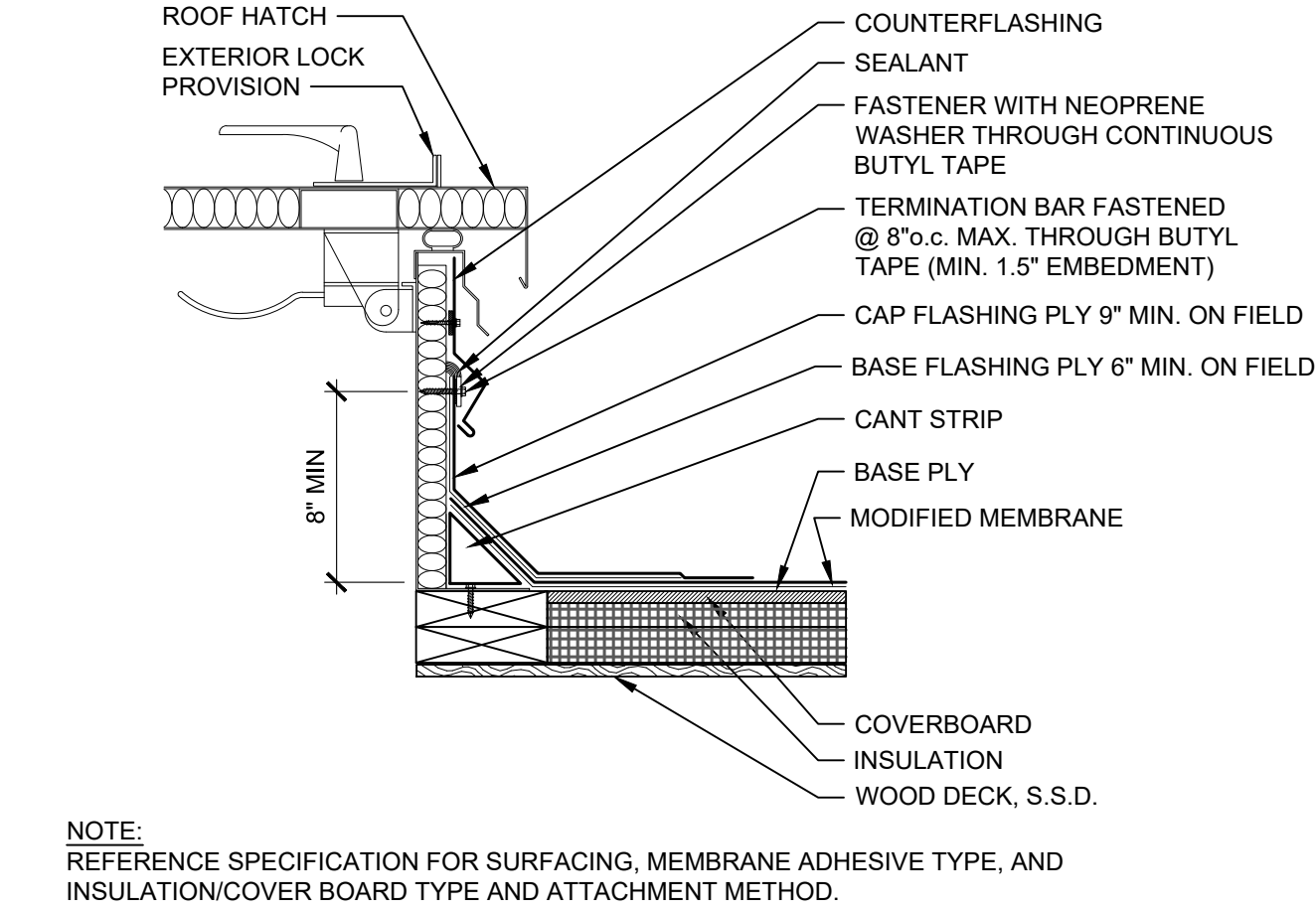
NO.	REVISIONS	ITEM	DATE
1			

DRAWN BY: KNU
CHECKED BY: MB
SFA JOB NO: 20087
DATE: 11/16/2021

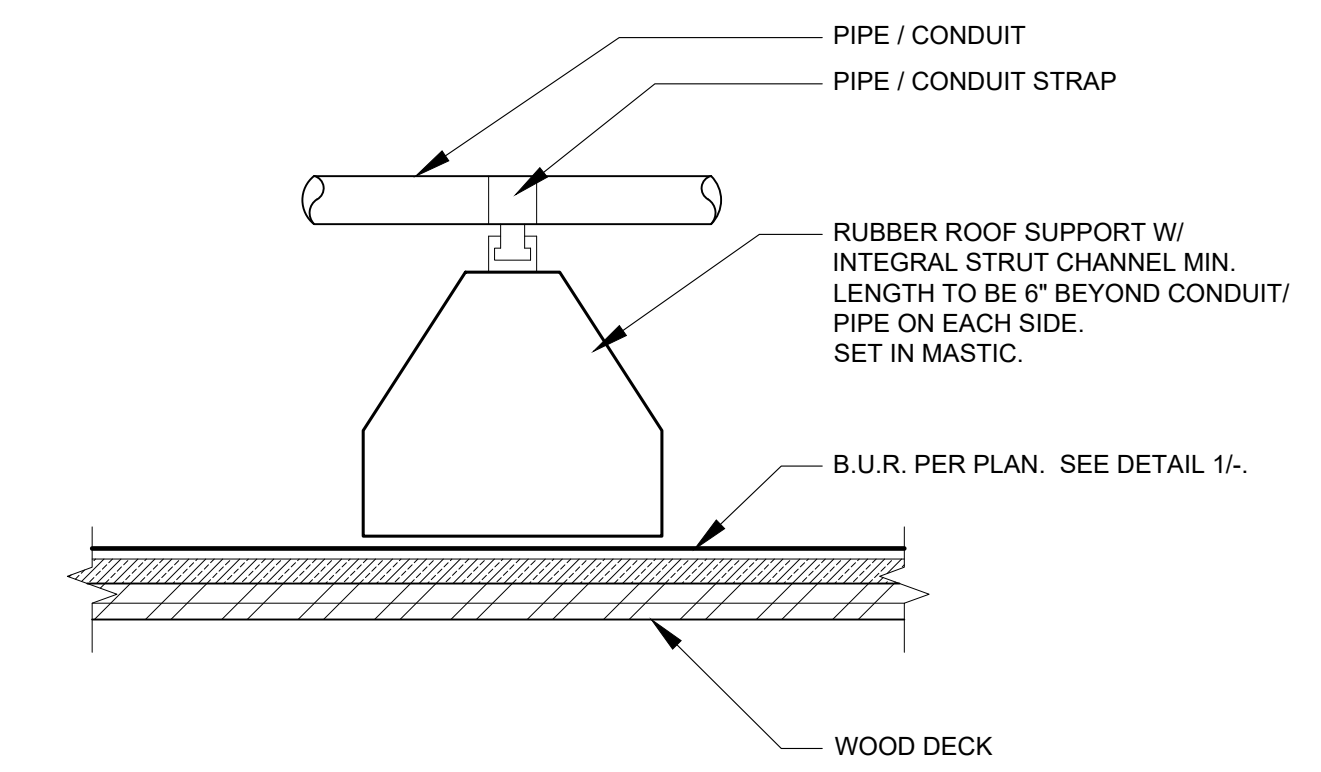
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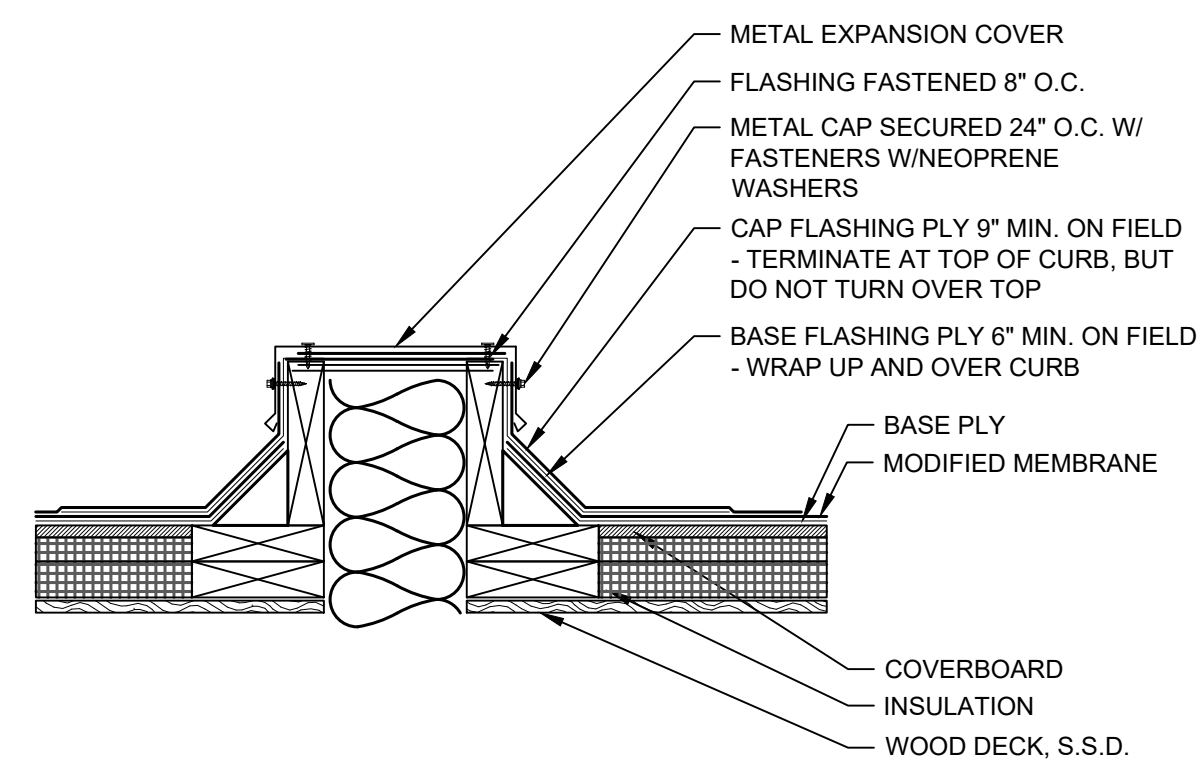
12 CONDUCTOR HEAD/GUTTER
@ WALL OPENING



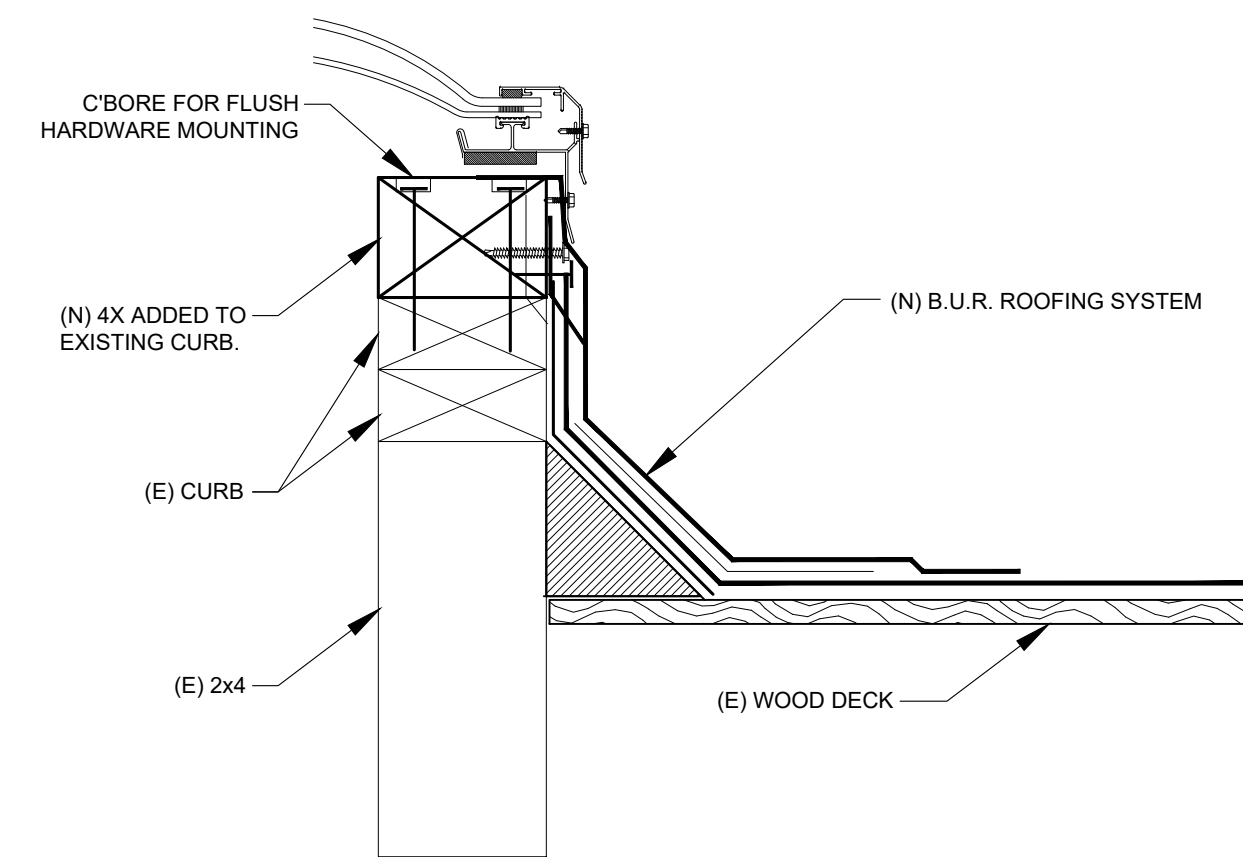
8 FLASHING DETAIL
@ ROOF HATCH 1-1/2"=1'-0" 1-1/2"=1'-0"



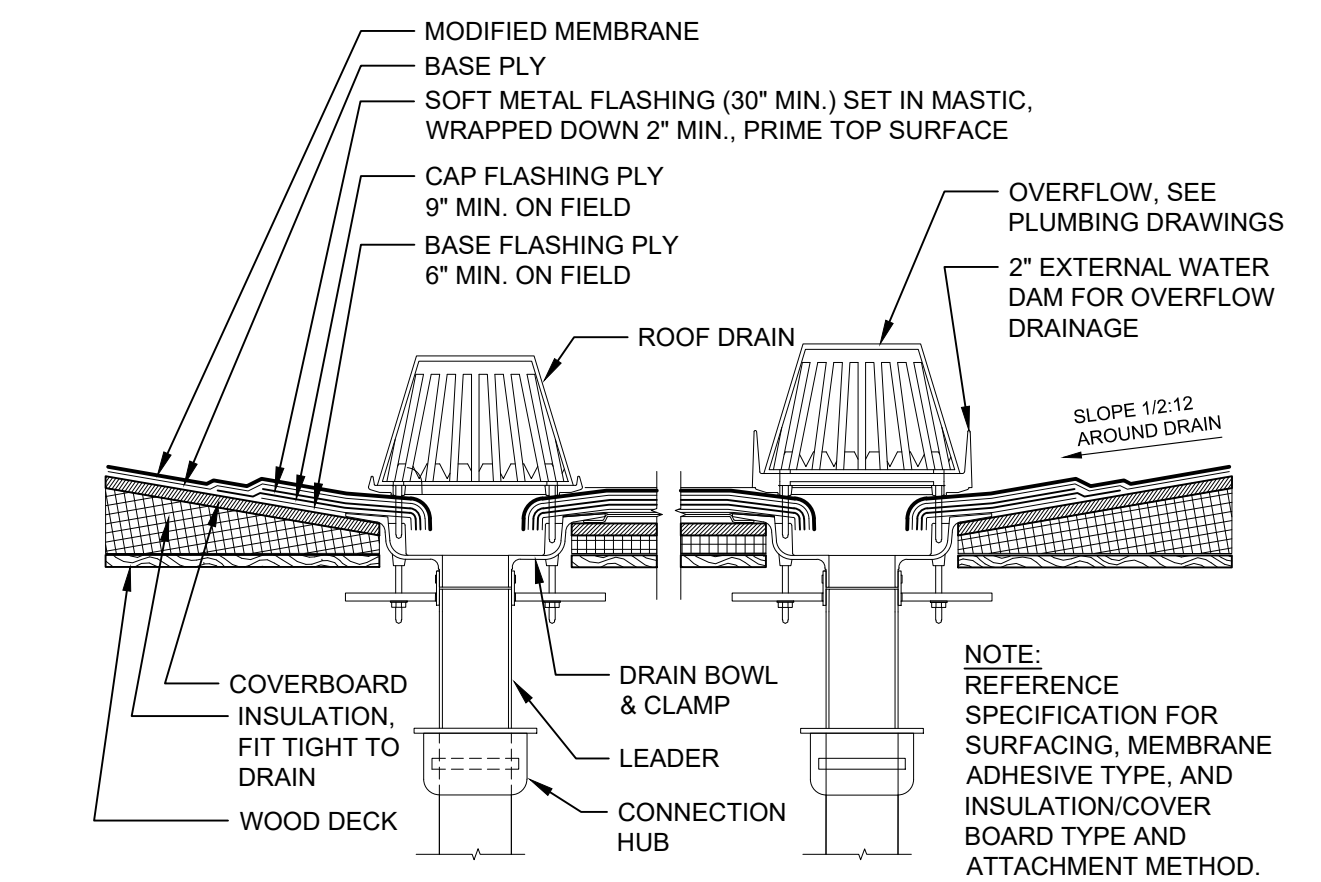
4 FLOATING SLEEPER
3"=1'-0"



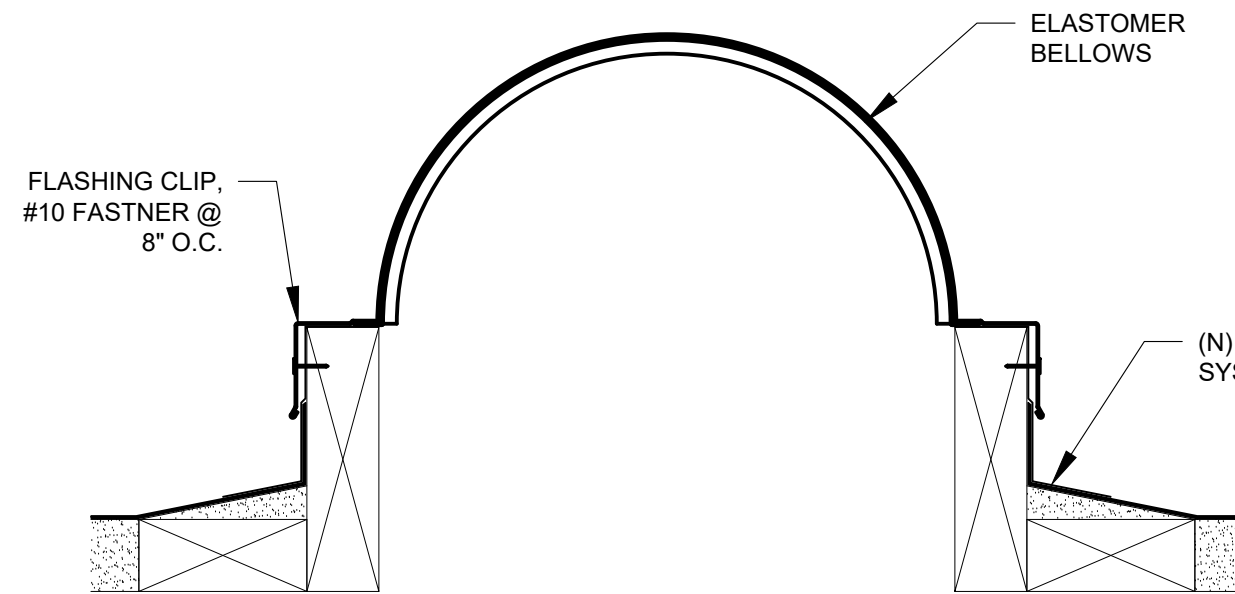
11 EXPANSION CAP
ROOF EXPANSION JOINT 1-1/2"=1'-0"



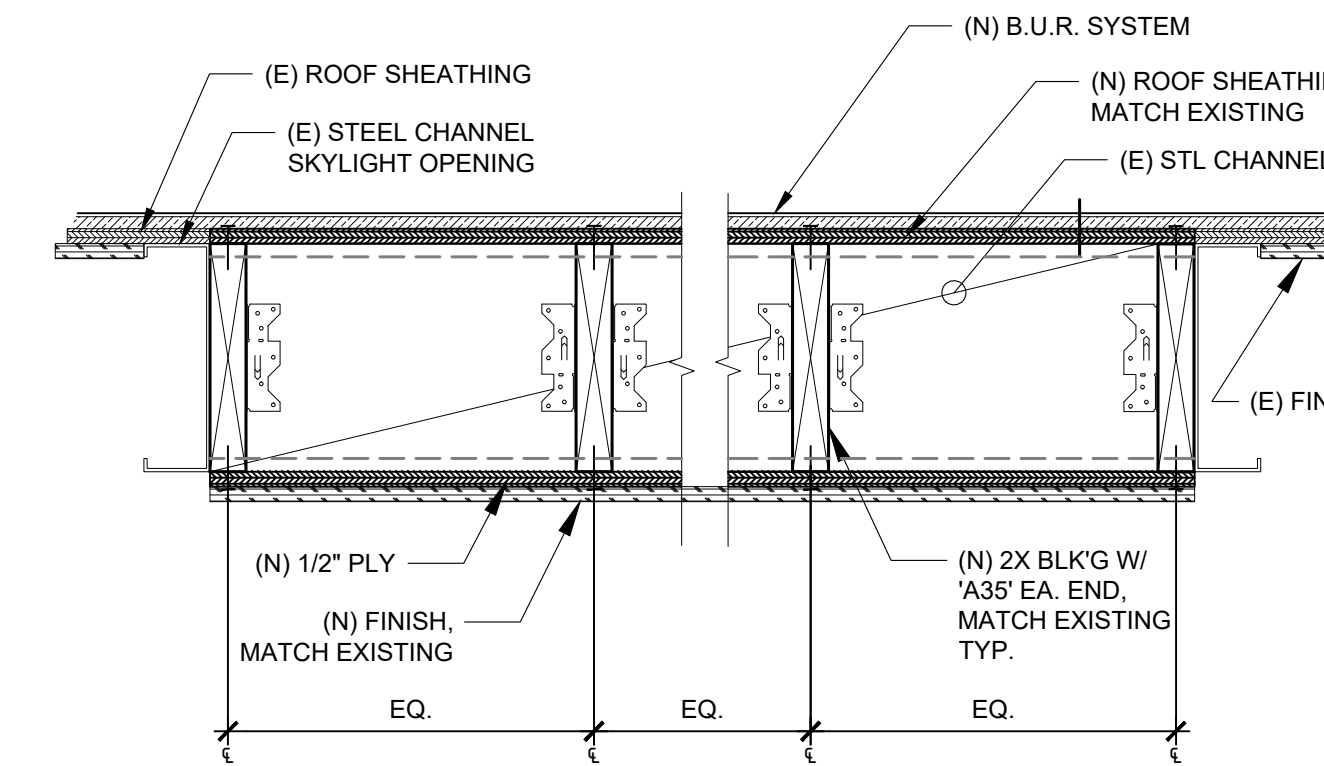
7 CURB EXTENSION - SKYLIGHT
3"=1'-0"



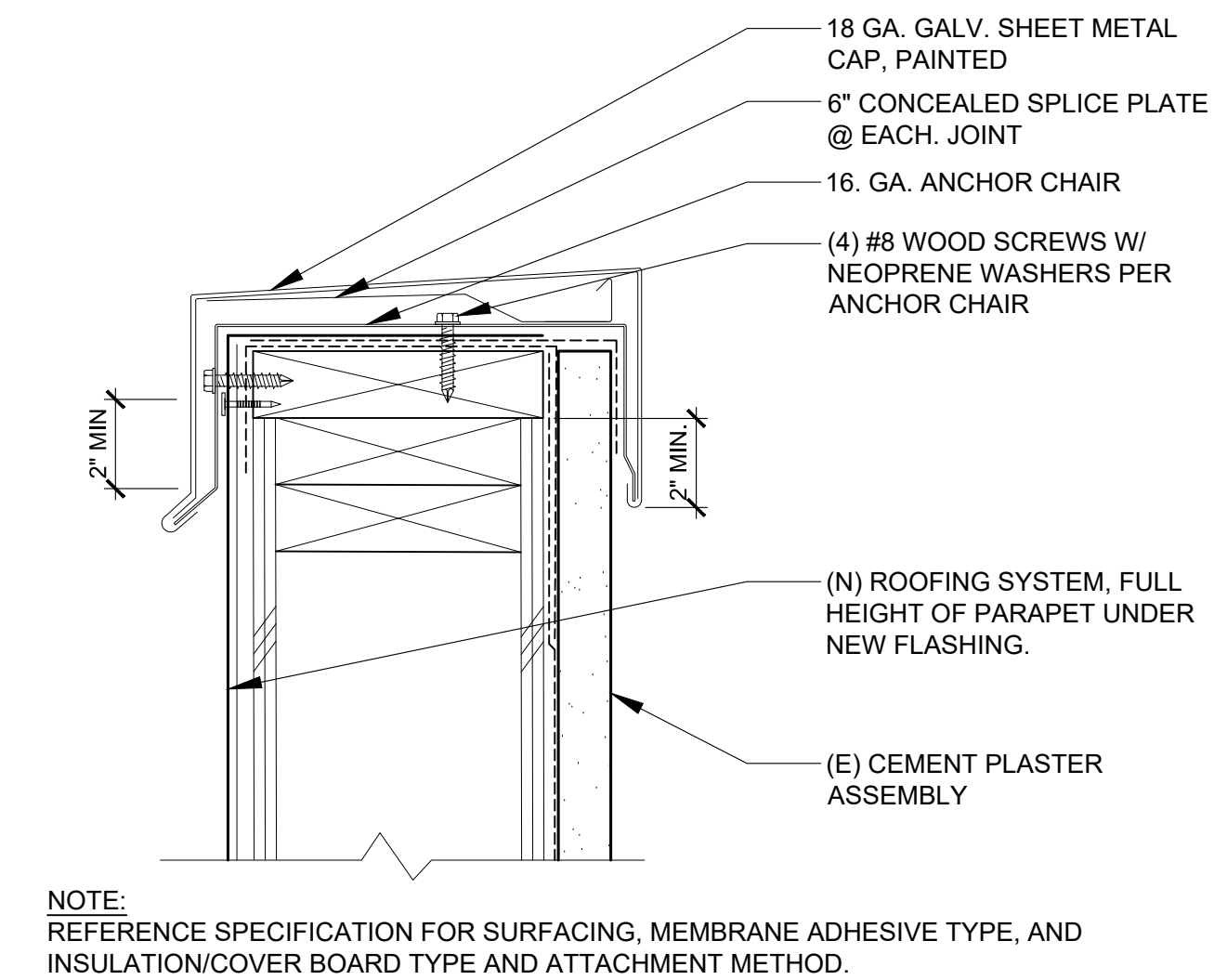
3 ROOF DRAIN AND OVERFLOW
1-1/2"=1'-0"



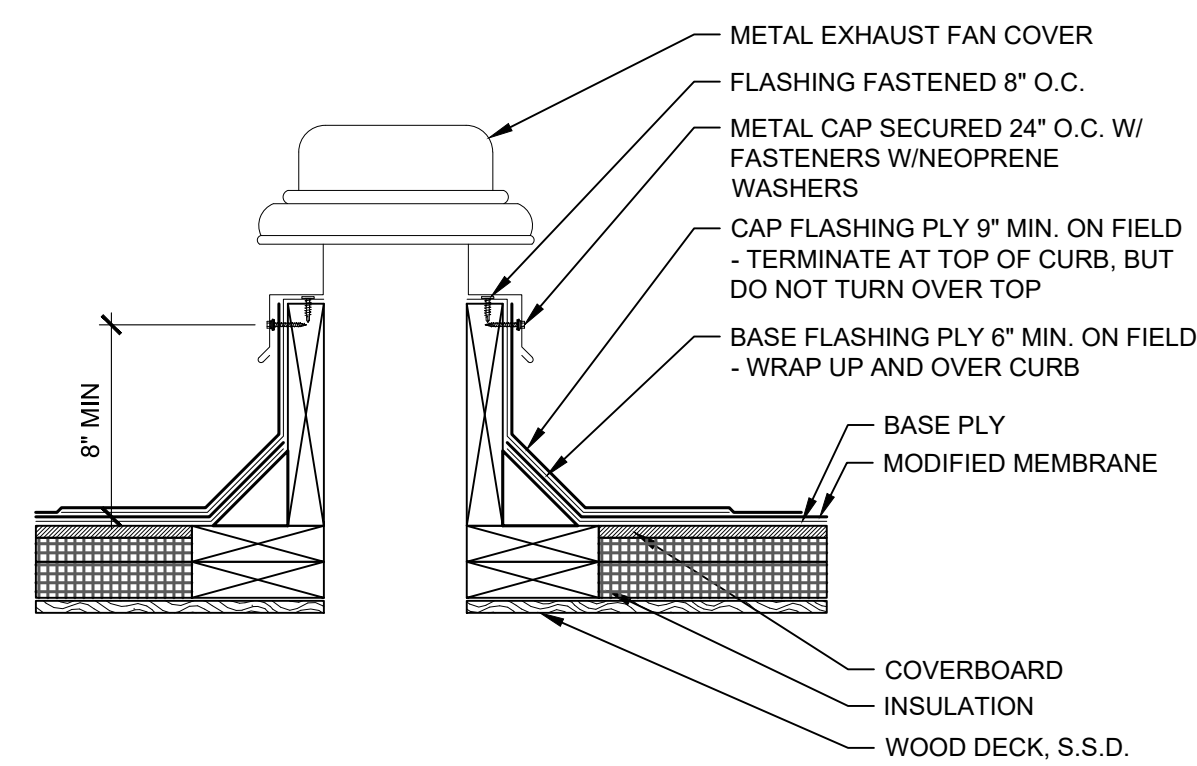
10 EXPANSION JOINT - ELASTOMER
3"=1'-0"



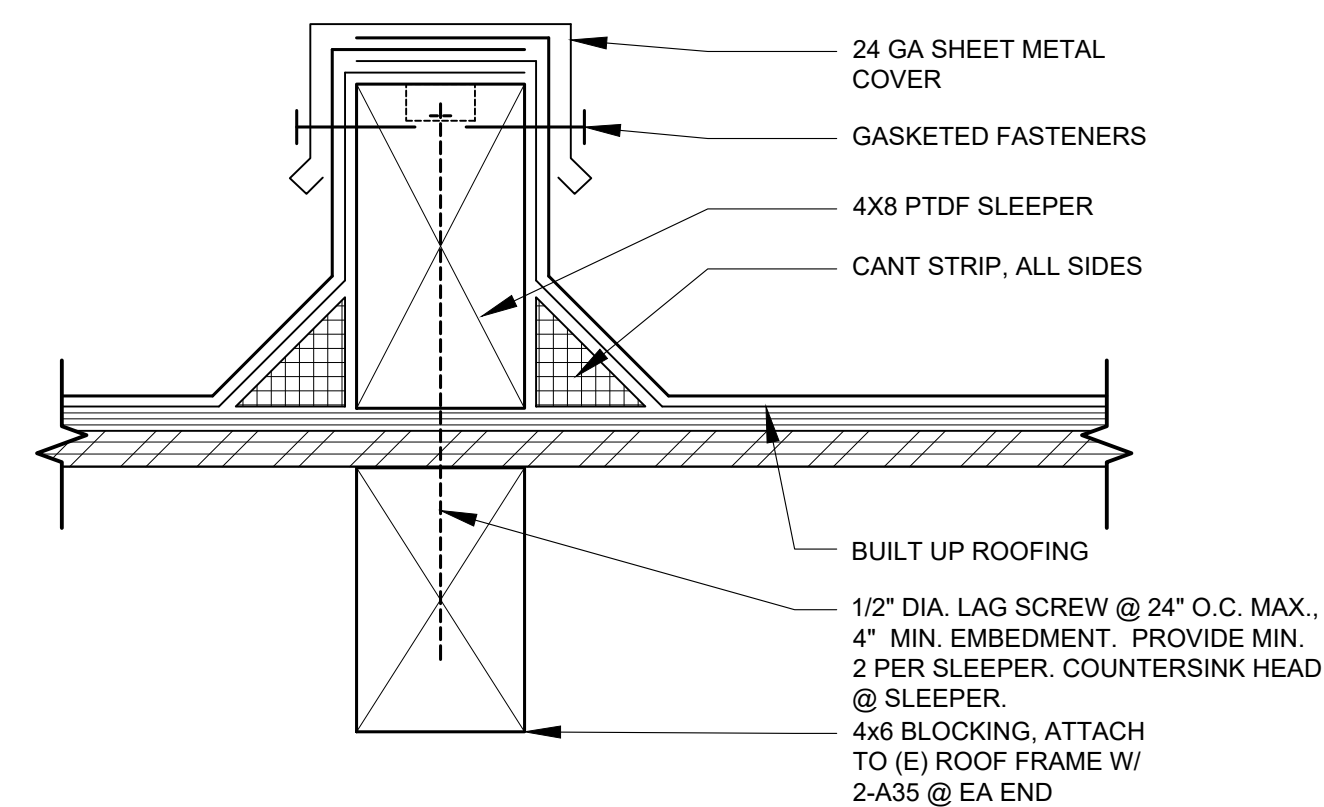
6 SKYLIGHT- INFILL & ROOF PATCH
1 1/2"=1'-0"



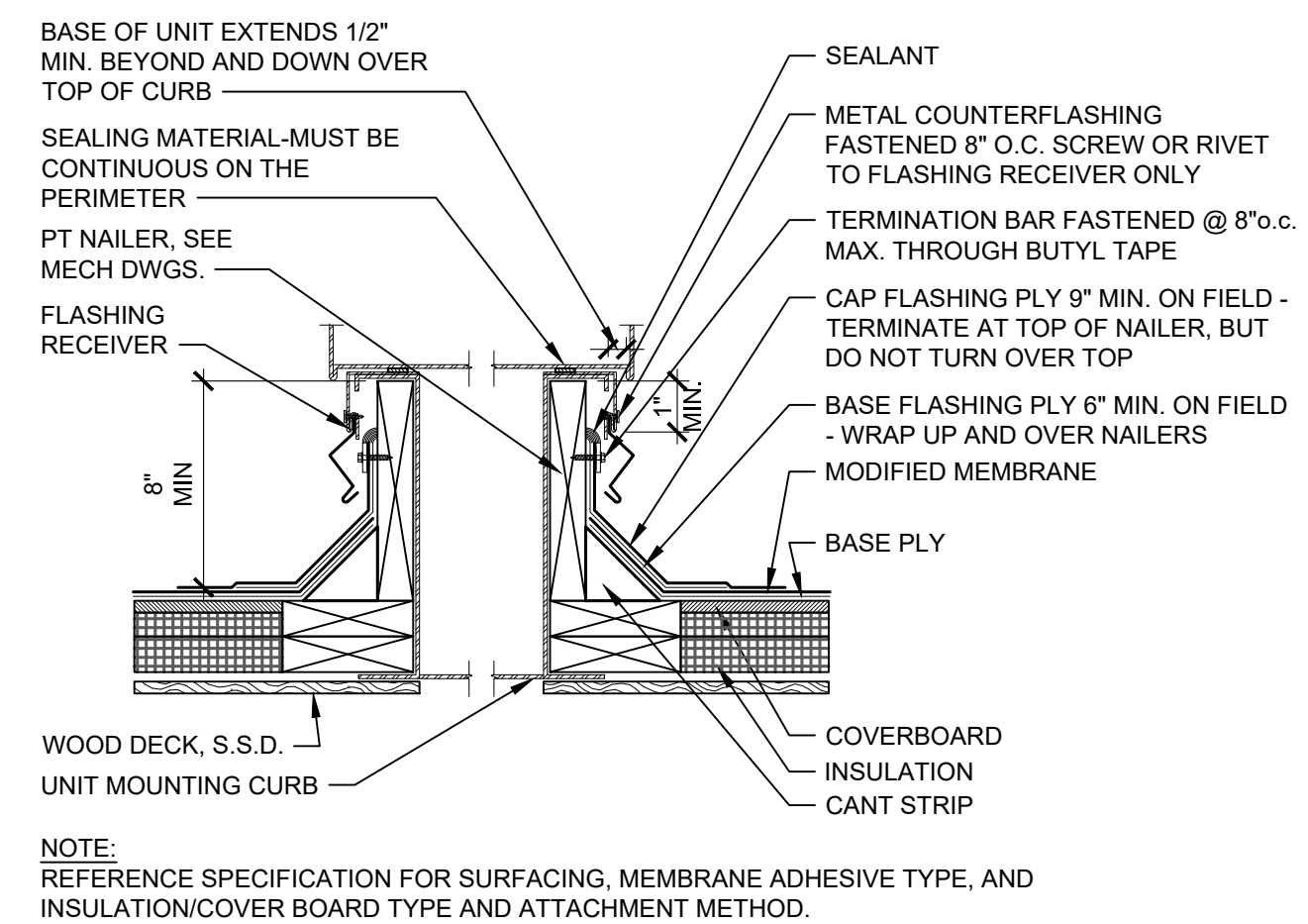
2 COPING CAP
@ CEMENT PLASTER ASSEMBLY 3"=1'-0"



9 FLASHING DETAIL
@ EXHAUST FAN 1-1/2"=1'-0"



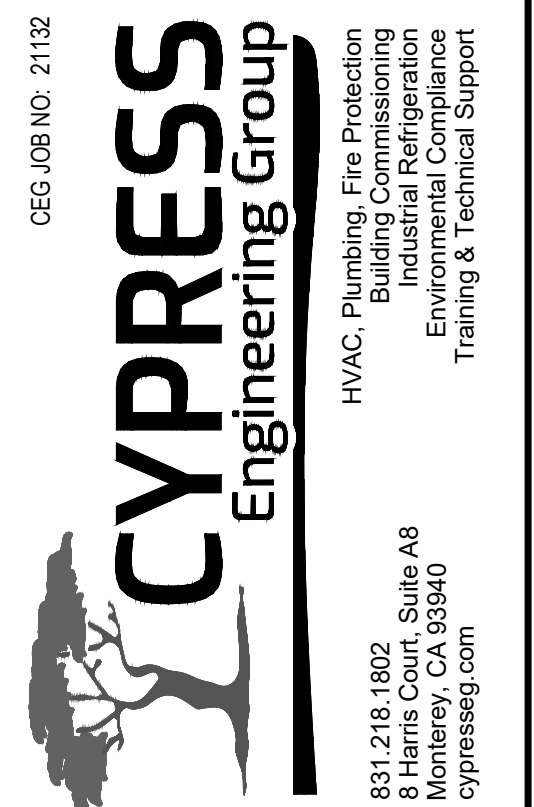
5 EQUIPMENT/ PIPE SLEEPER
3"=1'-0"



1 FLASHING DETAIL
@ AC UNIT 1-1/2"=1'-0"

		<div><div><div><div>& °F</div><div>AND DEGREES FAHRENHEIT</div></div><div><div>AAV</div><div>AUTOMATIC AIR VENT</div></div><div><div>AC</div><div>AIR CONDITIONER</div></div><div><div>AD</div><div>ACCESS DOOR</div></div><div><div>ADF</div><div>ABOVE FINISH FLOOR</div></div><div><div>AEUE</div><div>ANNUAL FUEL UTILIZATION EFFICIENCY</div></div><div><div>AL</div><div>ACOUSTICALLY LINED</div></div><div><div>AMP</div><div>AMPERE</div></div><div><div>AP</div><div>ACCESS PANEL</div></div><div><div>APPROX</div><div>APPROXIMATE</div></div><div><div>ARCH</div><div>ARCHITECT/ARCHITECTURAL</div></div><div><div>BDD</div><div>BACK DRAFT DAMPER</div></div><div><div>BFP</div><div>BACK FLOW PREVENTER</div></div><div><div>BHP</div><div>BRAKE HORSEPOWER</div></div><div><div>BLDG</div><div>BUILDING</div></div><div><div>BOD</div><div>BOTTOM OF DUCT</div></div><div><div>BOP</div><div>BOTTOM OF PIPE</div></div><div><div>BTU</div><div>BRITISH THERMAL UNIT</div></div><div><div>BTUH</div><div>BRITISH THERMAL UNITS PER HOUR</div></div><div><div>BTW/N</div><div>BETWEEN</div></div><div><div>CA</div><div>COMBUSTION AIR</div></div><div><div>CFH</div><div>CUBIC FEET PER HOUR</div></div><div><div>CFM</div><div>CUBIC FEET PER MINUTE</div></div><div><div>CHWR</div><div>CHILLED WATER RETURN</div></div><div><div>CHWS</div><div>CHILLED WATER SUPPLY</div></div><div><div>CIRC</div><div>CIRCULATING</div></div><div><div>CL</div><div>CENTERLINE</div></div><div><div>CLG</div><div>COOLING CEILING</div></div><div><div>CLR</div><div>CLEAR</div></div><div><div>CONC</div><div>CONCRETE</div></div><div><div>CONN</div><div>CONNECTION</div></div><div><div>CONT</div><div>CONTINUED, CONTINUATION</div></div><div><div>COOL</div><div>COOLING</div></div><div><div>COP</div><div>COEFFICIENT OF PERFORMANCE</div></div><div><div>DB</div><div>DRY BULB</div></div><div><div>DF</div><div>DRINKING FOUNTAIN</div></div><div><div>D/L</div><div>DOOR LOUVER</div></div><div><div>DN</div><div>DOWN</div></div><div><div>DP</div><div>DIFFERENTIAL PRESSURE</div></div><div><div>DWGS</div><div>DRAWINGS</div></div><div><div>(E)</div><div>EXISTING</div></div><div><div>EA</div><div>EXHAUST AIR</div></div><div><div>EAD</div><div>EXHAUST AIR DAMPER</div></div><div><div>EAT</div><div>ENTERING AIR TEMPERATURE</div></div><div><div>EDB</div><div>ENTERING DRY BULB</div></div><div><div>EER</div><div>ENERGY EFFICIENCY RATIO</div></div><div><div>EFF</div><div>EFFICIENCY</div></div><div><div>ELEC</div><div>ELECTRICAL</div></div><div><div>ELEV</div><div>ELEVATION</div></div><div><div>ENT</div><div>ENTERING</div></div></div><div><div><div>EQ</div><div>EQUIP</div></div><div><div>ESP</div><div>EXTERNAL STATIC PRESSURE</div></div><div><div>EW</div><div>ENTERING WATER</div></div><div><div>EWB</div><div>ENTERING WET BULB</div></div><div><div>EWV</div><div>ENTERING WATER TEMPERATURE</div></div><div><div>EXT</div><div>EXTERIOR</div></div><div><div>FD</div><div>FLOOR DRAIN</div></div><div><div>FFE</div><div>FINISHED FLOOR ELEVATION</div></div><div><div>FLA</div><div>FULL LOAD AMPS</div></div><div><div>FLEX</div><div>FLEXIBLE</div></div><div><div>FS</div><div>FEET PER MINUTE</div></div><div><div>FS</div><div>FLOOR SINK</div></div><div><div>FT</div><div>FEET</div></div><div><div>FT HD</div><div>FEET HEAD</div></div><div><div>FTR</div><div>FLUE THRU ROOF</div></div><div><div>GA</div><div>GALLON</div></div><div><div>GAL</div><div>GALLON</div></div><div><div>GPM</div><div>GALLONS PER MINUTE</div></div><div><div>HP</div><div>HORSEPOWER</div></div><div><div>HR</div><div>HOUR</div></div><div><div>HTG</div><div>HEATING</div></div><div><div>HZ</div><div>HERTZ</div></div><div><div>I</div><div>INVERT ELEVATION</div></div><div><div>IN</div><div>INCH</div></div><div><div>INV</div><div>INVERT</div></div><div><div>ISO</div><div>KILOWATTS</div></div><div><div>KWH</div><div>KILOWATT HOUR</div></div><div><div>LAT</div><div>LEAVING AIR TEMPERATURE</div></div><div><div>LBS</div><div>POUNDS</div></div><div><div>LVR</div><div>LOUVER</div></div><div><div>LWT</div><div>LEAVING WATER TEMPERATURE</div></div><div><div>UWB</div><div>LEAVING WET BULB</div></div><div><div>MAD, MD</div><div>MANUAL AIR DAMPER</div></div><div><div>MAV</div><div>MANUAL AIR VENT</div></div><div><div>MAX</div><div>MAXIMUM</div></div><div><div>MBH</div><div>1000 BTU PER HOUR</div></div><div><div>MCA</div><div>MINIMUM CIRCUIT AMPS</div></div><div><div>MCP</div><div>MECHANICAL CONTROL PANEL</div></div><div><div>MECH</div><div>MECHANICAL</div></div><div><div>MFR</div><div>MANUFACTURER</div></div><div><div>MIN</div><div>MINIMUM</div></div><div><div>MOCP</div><div>MAXIMUM OVERCURRENT PROTECTION</div></div><div><div>(N)</div><div>NEW</div></div><div><div>NC</div><div>NORMALLY CLOSED</div></div><div><div>NC</div><div>NOT IN CONTRACT</div></div><div><div>NO</div><div>NORMALLY OPEN</div></div><div><div>NTS</div><div>NOT TO SCALE</div></div><div><div>OA</div><div>OUTSIDE AIR</div></div><div><div>OAD</div><div>OUTSIDE AIR DAMPER</div></div><div><div>OC</div><div>ON CENTER</div></div></div><div><div><div>OD</div><div>OUTSIDE DIAMETER</div></div><div><div>PD</div><div>PRESSURE DROP</div></div><div><div>PH</div><div>PHASE</div></div><div><div>PLF</div><div>POUNDS PER LINEAR FOOT</div></div><div><div>POC</div><div>POINT OF CONNECTION</div></div><div><div>PRV</div><div>PRESSURE REDUCING VALVE</div></div><div><div>PSI (G)</div><div>POUNDS PER SQUARE INCH (GAUGE)</div></div><div><div>(ABSOLUTE)</div><div></div></div><div><div>PIT</div><div>PRESSURE/TEMPERATURE</div></div><div><div>QTY</div><div>QUANTITY</div></div><div><div>RA</div><div>RETURN AIR</div></div><div><div>RAD</div><div>RETURN AIR DAMPER</div></div><div><div>RH</div><div>RELATIVE HUMIDITY</div></div><div><div>RL</div><div>REFRIGERANT LIQUID</div></div><div><div>RM</div><div>ROOM</div></div><div><div>RPM</div><div>REVOLUTIONS PER MINUTE</div></div><div><div>RS</div><div>REFRIGERANT SUCTION</div></div><div><div>RV</div><div>RELIEF VALVE</div></div><div><div>SA</div><div>SUPPLY AIR</div></div><div><div>SC</div><div>SENSIBLE COOLING</div></div><div><div>SEER</div><div>SEASONAL ENERGY EFFICIENCY RATIO</div></div><div><div>SD</div><div>SMOKE DAMPER</div></div><div><div>SM</div><div>SHEET METAL</div></div><div><div>SOV</div><div>SHUT-OFF VALVE</div></div><div><div>SP</div><div>STATIC PRESSURE</div></div><div><div>SPEC</div><div>SPECIFICATION</div></div><div><div>SQ</div><div>SQUARE</div></div><div><div>SQFT, FT²</div><div>SQUARE FEET</div></div><div><div>SQIN, IN²</div><div>SQUARE INCHES</div></div><div><div>STRUCT</div><div>STRUCTURAL</div></div><div><div>T</div><div>THERMOSTAT, "X" INDICATES DEVICE CONTROLLED, 48" AFF (TO TOP OF STAT)</div></div><div><div>TC</div><div>TOTAL COOLING</div></div><div><div>TDH</div><div>TOTAL DYNAMIC HEAD</div></div><div><div>TEMP</div><div>TEMPERATURE</div></div><div><div>THRU</div><div>THROUGH</div></div><div><div>TSP</div><div>TOTAL STATIC PRESSURE</div></div><div><div>TV</div><div>TURNING VANES</div></div><div><div>TYP</div><div>TYPICAL</div></div><div><div>UL</div><div>UNDERWRITERS LABORATORIES</div></div><div><div>UCN</div><div>UNLESS OTHERWISE NOTED</div></div><div><div>V</div><div>VOLT</div></div><div><div>VFD</div><div>VARIABLE FREQUENCY DRIVE</div></div><div><div>VTR</div><div>VENT THROUGH ROOF</div></div><div><div>W</div><div>WATTS</div></div><div><div>W</div><div>WITH</div></div><div><div>WB</div><div>WET BULB</div></div><div><div>WC</div><div>WATER COLUMN</div></div><div><div>WH</div><div>WATER HEATER</div></div><div><div>WT</div><div>WEIGHT</div></div></div></div> <div><div>2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.</div><div>2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.</div><div>2019 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.</div><div>2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.</div><div>2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.</div><div>2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.</div><div>2019 CALIFORNIA FIRE CODE (FC), PART 7, TITLE 24, C.C.R.</div><div>2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.</div><div>2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.</div><div>TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.</div></div>				
		ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R. 1. ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338. 2. INSPECTOR APPROVED BY DSA, INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342. 3. TESTS AND TESTING LABORATORY PER SECTION 4-335. 4. SPECIAL INSPECTION PER SECTION 4-333(d). 5. CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 AND 4-343(d). 6. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4-333(a) AND 4-341. 7. GOVERNING CODES: TITLE 24. 8. A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION. 9. DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECTION 4-331. 10. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-334.				
DSA GENERAL NOTES		SYMBOL LEGEND			GENERAL NOTES	
	<div><div>1. THE INTENT OF THE CONTRACT DOCUMENTS IS TO MODERNIZE THE SCHOOL'S CAMPUS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.</div><div>2. THE SEISMIC SUPPORT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD FOR CONFORMANCE WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN.</div><div>3. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA FROM CHAPTER 16A CALIFORNIA BUILDING CODE (CBC) 2019.</div><div>4. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.</div><div>5. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.</div></div>	<div><div><div><div><div>SINGLE LINE SYMBOL</div><div>DOUBLE LINE SYMBOL</div><div>DESCRIPTION</div></div><div><div><div><div></div><div>LONG SWEEP 90° ELBOW - RECTANGULAR, ROUND OR OVAL</div></div><div><div></div><div>45° ELBOW - RECTANGULAR, ROUND OR OVAL</div></div><div><div></div><div>30° ELBOW - RECTANGULAR, ROUND OR OVAL</div></div><div><div></div><div>90° ELBOW - RECTANGULAR DUCT WITH TURNING VANES</div></div><div><div></div><div>45° LATERAL - ROUND TO ROUND OR OVAL TO OVAL</div></div><div><div></div><div>90° TAKEOFF WITH 45° TAPER - RECTANGULAR TO RECTANGULAR (FOR BRANCH TAKEOFF LONGER THAN 50'-0", USE 15)</div></div><div><div></div><div>90° TAKEOFF WITH 45° ELONGATED TEE - ROUND TO ROUND</div></div><div><div></div><div>Y BRANCH - ROUND OR OVAL DUCT</div></div><div><div></div><div>90° RADIUS SPLIT - RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, XY PROPORTIONAL SPLIT</div></div><div><div></div><div>90° RECTANGULAR SPLIT - RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, XY PROPORTIONAL SPLIT</div></div><div><div></div><div>TRANSITION - RECTANGULAR TO ROUND OR RECTANGULAR TO OVAL</div></div><div><div></div><div>FLEXIBLE DUCT - ROUND</div></div><div><div></div><div>FLEXIBLE DUCT - RECTANGULAR</div></div></div><div><div><div><div>SINGLE LINE SYMBOL</div><div>DOUBLE LINE SYMBOL</div><div>DESCRIPTION</div></div><div><div></div><div>SECTION AT SUPPLY AIR OR MAKE-UP AIR DUCT UP</div></div><div><div></div><div>SECTION AT RETURN AIR OR COMBUSTION AIR DUCT UP</div></div><div><div></div><div>SECTION AT EXHAUST AIR OR RELIEF AIR DUCT UP</div></div><div><div></div><div>SUPPLY AIR DUCT DOWN</div></div><div><div></div><div>RETURN AIR DUCT DOWN</div></div><div><div></div><div>EXHAUST AIR DUCT DOWN</div></div><div><div></div><div>ROUND DUCT UP - SUPPLY, RETURN OR EXHAUST</div></div><div><div></div><div>ROUND DUCT DOWN - SUPPLY, RETURN OR EXHAUST</div></div><div><div></div><div>CEILING DIFFUSER - ONE, TWO, THREE AND FOUR WAY THROW</div></div><div><div></div><div>CEILING - RETURN AND EXHAUST REGISTERS</div></div><div><div></div><div>SIDEWALL - SUPPLY DIFFUSER, RETURN AND EXHAUST REGISTERS</div></div><div><div></div><div>MANUAL BALANCE DAMPER WITH DUCT ACCESS DOOR</div></div><div><div></div><div>MOTORIZED BALANCE DAMPER WITH DUCT ACCESS DOOR</div></div><div><div></div><div>FIRE DAMPER WITH DUCT ACCESS DOOR</div></div><div><div></div><div>FIRE/SMOKE DAMPER WITH DUCT ACCESS DOOR</div></div><div><div></div><div>ACOUSTICALLY LINED DUCT. DIMENSIONS ARE INSIDE</div></div><div><div></div><div>REGISTER NECK SIZE AND TAG DESIGN CFM</div></div><div><div></div><div>PANEL AT T-BAR CEILING</div></div></div></div></div></div></div></div>	<div><div>1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE INSTALLATION. ALL METHODS AND REQUIREMENTS FOR INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE PLANS PRIOR TO SUBMITTING BID. SUBMITTAL OF THE CONTRACTOR'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED.</div><div>2. CONTRACTOR SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL SYSTEMS.</div><div>3. THE DRAWINGS INCLUDED IN THIS SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORD'S DESIGN INTENT FOR ALL EQUIPMENT AND RELATED PIPING ETC. INDIVIDUAL POWER NEEDS, CONTROLS AND OTHER CONNECTIONS SHALL BE COORDINATED AND COMPLETED/ PROVIDED FOR COMPLETE SYSTEM OPERATION BY CONTRACTOR.</div><div>4. EQUIPMENT LOCATIONS AND PIPE ROUTING ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND ROUTE PIPING IN LOCATIONS WHICH MEET CODE REQUIREMENTS AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.</div><div>5. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN HATCHED. SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.</div><div>6. ALL EQUIPMENT, EQUIPMENT CONNECTIONS, PIPING, MOUNTING LOCATIONS ETC. ARE TO BE VERIFIED WITH OWNERS' REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO BEGINNING OF THE ROUGH-IN.</div><div>7. ALL WORK SHALL BE PERFORMED TO STATE, LOCAL, NATIONAL AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION.</div><div>8. ALL EQUIPMENT SHALL BE NEW AND CLEARLY LABELED AND IDENTIFIED. LABELS SHALL NOT BE COVERED BY OTHER CONSTRUCTION ELEMENTS.</div><div>9. UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS, CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT AND WORK FOR A PERIOD OF ONE YEAR.</div><div>10. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS, EVERYTHING IS NEW.</div><div>11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW CUTTING, CORE DRILLING, PATCHING, REFINISHING, ETC. AS REQUIRED FOR INSTALLATION OF SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE WALL OR STRUCTURE.</div><div>12. CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL INCLUDE THE PRICE OF INSTALLING ALL CONNECTIONS AS REQUIRED IN THEIR BIDS.</div><div>13. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ENGINEER OF RECORD. ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK.</div><div>14. THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW APPROVAL AND CONTRACTOR BIDDING PURPOSES.</div><div>15. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT DRAWINGS.</div><div>16. ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO BUILDING SERVICES(S) (ELECTRICAL/HVAC/PLUMBING ETC.) MUST BE COORDINATED WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTIME SHALL NOT OCCUR DURING SCHOOL OPERATION HOURS.</div><div>17. IN INSTANCES WHERE A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS AND INSTALLATION MANUALS FOR THE PROJECT EXISTS, THE CONTRACTOR SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT.</div><div>18. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER.</div><div>19. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.</div><div>20. FOR ALL VOLUME DAMPERS LOCATED ABOVE CEILINGS, PROVIDE 12" LONG 1/2" WIDE FLUORESCENT ORANGE TAPE TO MARK DAMPER LOCATIONS.</div><div>21. ALL DUCTWORK, CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. WHERE WORK HAS TO BE INSTALLED IN EXPOSED LOCATIONS, IT SHALL BE PAINTED TO MATCH THE ADJACENT SURFACES OR PER ARCHITECT'S DIRECTION.</div><div>22. CONTRACTOR SHALL PREPARE AND SUBMIT THE CALIFORNIA ENERGY COMMISSION TITLE 24 CERTIFICATE OF ACCEPTANCE FORMS RELATED TO INSTALLED EQUIPMENT AND SYSTEMS.</div><div>23. 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.</div><div>24. CONTRACTOR'S EQUIPMENT: COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. COORDINATE WITH OWNER FOR LOCATION AND PROCEDURES.</div><div>25. ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.</div><div>26. CONSTRUCTION SCHEDULING: CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNERS' 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.</div><div>27. TITLE 24 COMPLIANCE: THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS (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 SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.</div></div>			
MEP COMPONENT ANCHORAGE NOTE		<div><div>ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.16 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.</div><div>1. ALL PERMANENT EQUIPMENT AND COMPONENTS.</div><div>2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.</div><div>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.</div><div>THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCED NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.</div><div>A. COMPONENTS WEIGHING 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.</div><div>B. COMPONENTS WEIGHING 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.</div><div>THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO 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.</div></div>				
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE		<div><div><div><div>SYMBOL</div><div>ABBRV.</div><div>IDENTIFICATION</div></div><div><div></div><div>CAP</div></div><div><div></div><div>CONT.</div></div><div><div></div><div>UNION</div></div><div><div></div><div>LINE BREAK</div></div><div><div></div><div>CKV</div></div><div><div></div><div>T&PRV</div></div><div><div></div><div>VALVE</div></div><div><div></div><div>CONCENTRIC & ECCENTRIC REDUCERS</div></div><div><div></div><div>AD, AP</div></div><div><div></div><div>MAV</div></div><div><div></div><div>T</div></div><div><div></div><div>CO2</div></div></div><div><div><div><div>SYMBOL</div><div>ABBRV.</div><div>IDENTIFICATION</div></div><div><div></div><div>P.O.C.</div></div><div><div></div><div>REMOVE EXISTING</div></div><div><div></div><div>TEE DOWN</div></div><div><div></div><div>90 DOWN</div></div><div><div></div><div>EQUIPMENT DESIGNATION</div></div><div><div></div><div>TAG NUMBER</div></div><div><div></div><div>SECTION 1 / SHEET M2.1</div></div></div></div></div>				
		DRAWING INDEX				
	<div><div>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.</div><div>THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., DSHPD OPM FOR 2013 BC 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 HANGING AND BRACE LOADS.</div><div>MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):</div><div>MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/> - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.</div><div>MP <input checked="" type="checkbox"/> MD <input checked="" type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/> - OPTION 2: SHALL COMPLY WITH THE APPLICABLE DSHPD PRE-APPROVAL (OPM #) #0295-13, "UNISTRUT" OR #0052-13, "B-LINE/TOLCO"</div></div>	<div><div>MP0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL & PLUMBING</div><div>MP0.2 SCHEDULES & DETAILS - MECHANICAL & PLUMBING</div><div>MP2.1 BUILDINGS A & MPR - DEMOLITION FLOOR PLANS - MECHANICAL & PLUMBING</div><div>MP2.2 BUILDING C - DEMOLITION FLOOR PLAN - MECHANICAL & PLUMBING</div><div>MP2.3 BUILDINGS A & MPR - NEW FLOOR PLANS - MECHANICAL & PLUMBING</div><div>MP2.4 BUILDINGS A & MPR - NEW FLOOR PLANS - MECHANICAL & PLUMBING</div><div>MP3.1 BUILDINGS A & MPR - DEMOLITION ROOF PLANS - MECHANICAL & PLUMBING</div><div>MP3.2 BUILDING C - DEMOLITION ROOF PLAN - MECHANICAL & PLUMBING</div><div>MP3.3 BUILDINGS A & MPR - NEW ROOF PLANS - MECHANICAL & PLUMBING</div><div>MP3.4 BUILDING C - NEW ROOF PLAN - MECHANICAL & PLUMBING</div><div>MP4.1 DETAILS - MECHANICAL & PLUMBING</div><div>MP1.1 BUILDINGS A & MPR - RECORD DRAWINGS</div><div>MP1.2 TITLE 24 - MECHANICAL</div><div>MP1.3 TITLE 24 - MECHANICAL</div><div>MP1.4 BUILDING C - NEW ROOF PLAN - MECHANICAL & PLUMBING</div><div>MP2.1 BUILDINGS A & MPR - RECORD DRAWINGS</div><div>MP2.2 TITLE 24 - MECHANICAL</div></div>				
					REVISIONS	
					NO.	ITEM DATE
					DRAWN BY: CAD	
					CHECKED BY: CS	
					SFA JOB NO: DATE:	
					20087 11/05/2021	
					MP0.1	

(DSA STAMP AREA)



SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL & PLUMBING

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

DRAWN BY: CAD
CHECKED BY: CS
SFA JOB NO: DATE:
20087 11/05/2021

SPLIT SYSTEM SCHEDULE BLD-A																	
TAG	MANUFACTURER	MODEL	LOCATION	COOLING	HEATING	AIRFLOW CFM	ESP IN. W.G.	REFRIGERANT PIPING		SEER	HSPF	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
				TOTAL MBH	TOTAL MBH			LIQUID	GAS			V / PH	MCA	MOCP			
HP-A-1	mitsubishi	TRUZA018	ROOF	18	13.5	—	—	1/4"	1/2"	24.6	11	208 /1	11	28	100	8MP0.2	1,3
AH-A-1	mitsubishi	TPLA0A018	CONFERENCE ROOM			460	—					208 / 1	1	—	46	7MP0.2	1,2
HP-A-2	fujiitsu	AQURRL	ROOF	9	12	—	—	1/4"	3/8"	33	14.2	208 /1	13.4	20	84	6MP0.2	1,4
AH-A-2	fujiitsu	ASURRL	SEE PLAN			489	—					208 / 1	—	—	37	7MP0.2	1,2

1. MOUNT SIMILAR TO EXISTING UNIT. UTILIZE EXISTING CONNECTIONS. VERIFY IN FIELD.
2. PROVIDE WITH MERV 13 FILTERS.
3. OUTDOOR CONDENSING UNITS TO BE LOCATED WITH PROPER CLEARANCES AND MUST PREVENT RE CIRCULATION OF AIR. COORDINATE WITH MANUFACTURER AND ARCHITECT

SPLIT SYSTEM SCHEDULE BLD-C																	
TAG	MANUFACTURER	MODEL	LOCATION	COOLING	HEATING	AIRFLOW CFM	ESP. IN. W.G.	REFRIGERANT PIPING		SEER	HSPF	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
				TOTAL MBH	TOTAL MBH			LIQUID	GAS			V / PH	MCA	MOCP			
HP-11	YORK	YHE18B21S	ROOF	18.6	19.6	—	—	3/8"	3/4"	15.75	9	208 /1	12	20	120	9MP0.2	1,4
AH-11	YORK	AE24BX21	SEE PLAN			698	0.50					208 / 1	3.30	15	210	7MP0.2	1,2,3

1. MOUNT SIMILAR TO EXISTING UNIT. UTILIZE EXISTING CONNECTIONS. VERIFY IN FIELD.
2. PROVIDE WITH MERV 13 FILTERS.
3. HORIZONTAL CONFIGURATION.
4. OUTDOOR CONDENSING UNITS TO BE LOCATED WITH PROPER CLEARANCES AND MUST PREVENT RE CIRCULATION OF AIR. COORDINATE WITH MANUFACTURER AND ARCHITECT

GAS PRESSURE REGULATORS SCHEDULE									
TAG	MANUFACTURER	MODEL NO.	LOCATION	MIN. CAPACITY CFH	INLET PRESSURE	OUTLET PRESSURE	ORIFICE SIZE	PIPE SIZE	NOTES
GPR-1	AMERICAN METER	1800C SERIES	ROOF SEE PLANS	780	2 PSI	7" WC	1/2"	1-1/4"	YELLOW 70017P044
GPR-2	AMERICAN METER	1800C SERIES	ROOF SEE PLANS	300	2 PSI	7" WC	1/4"	1-1/4"	YELLOW 70017P044

ROOF HOOD SCHEDULE										
TAG	MANUFACTURER	MODEL NO.	TYPE	HOOD SIZE (IN)		CURB CAP (IN)		WEIGHT LBS	MOUNTING DETAIL	NOTES
				Ø	H	L	W			
RH-1	GREENHECK	GRSR-10	RELIEF	20.5	9.5	19	19	24	5MP0.2	1, 2, 3
IV-1A	GREENHECK	GRSI-8	INTAKE	20.5	9	19	19	23	5MP0.2	1, 2, 3

1. WEIGHT INCLUDES ACCESSORIES.
2. PROVIDE WITH INSECT SCREEN.
3. PROVIDE GREENHECK GPI ROOF CURB.

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 NEEDED 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 HEAT PUMPS:

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.

ROOFTOP PACKAGED AIR CONDITIONING 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. UNITS FACTORY ECONOMIZER CONTROLLER SHALL MODULATE OUTSIDE AIR DAMPER TO PROVIDE FREE COOLING WHEN OUTSIDE AIR IS BELOW 75°F AND OUTSIDE AIR TEMP IS 2°F BELOW ROOM TEMPERATURE.
5. UNIT SHALL OPERATE CONTINUOUSLY DURING SCHEDULED OCCUPIED HOURS.
6. MOTORIZED OUTSIDE AIR DAMPER SHALL OPEN TO MINIMUM POSITION WHEN UNIT IS OPERATING. BALANCE CONTRACTOR SHALL DETERMINE DAMPER SETPOINT.
7. WHEN UNIT IS OFF, OUTSIDE AIR DAMPER SHALL BE CLOSED.

PELICAN CONTROLS AND SEQUENCE OF OPERATION

SPLIT SYSTEMS:

1. EACH FAN COIL 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. FAN COIL SHALL OPERATE UNDER ITS OWN INTERNAL SEQUENCE TO PROVIDE HEATING OR COOLING BASED ON ROOM SETPOINT.

EXHAUST FANS:

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

PACKAGED ROOFTOP AIR CONDITIONING UNITS SCHEDULE BLD-A																				
TAG	MANUFACTURER	MODEL NO.	COOLING MBH		HEATING MBH		AIRFLOW CFM	ESP IN. W.G.	OUTSIDE AIR CFM	FAN RPM	MOTOR HP	SEER	EER	AFUE %	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
			TOTAL	SENSIBLE	INPUT	OUTPUT									V / PH	MCA	MOCP			
AC-A-1	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1453	0.87	19.2	12.9	81	208 / 3	25	35	934	1MP0.2	1,2,3,4,5,6,7,8
AC-A-2	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1453	0.87	19.2	12.9	81	208 / 3	25	35	934	1MP0.2	1,2,3,4,5,6,7,8
AC-A-3	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1453	0.87	19.2	12.9	81	208 / 3	25	35	934	1MP0.2	1,2,3,4,5,6,7,8
AC-A-4	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1453	0.87	19.2	12.9	81	208 / 3	25	35	934	1MP0.2	1,2,3,4,5,6,7,8
AC-A-5	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1453	0.87	19.2	12.9	81	208 / 3	25	35	934	1MP0.2	1,2,3,4,5,6,7,8
AC-A-6	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1453	0.87	19.2	12.9	81	208 / 3	25	35	934	1MP0.2	1,2,3,4,5,6,7,8
AC-A-7	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1453	0.87	19.2	12.9	81	208 / 3	25	35	934	1MP0.2	1,2,3,4,5,6,7,8
AC-A-8	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1453	0.87	19.2	12.9	81	208 / 3	25	35	934	1MP0.2	1,2,3,4,5,6,7,8
AC-A-9	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1453	0.87	19.2	12.9	81	208 / 3	25	35	934	1MP0.2	1,2,3,4,5,6,7,8
AC-A-10	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1453	0.87	19.2	12.9	81	208 / 3	25	35	934	1MP0.2	1,2,3,4,5,6,7,8
AC-A-11	AAON	RQ-002	24.85	24.85	60	48.6	800	0.55	300	1213	0.31	19.15	14.75	81	208 / 1	16	20	846	1MP0.2	1,2,3,4,5,6,7,8
AC-A-12	AAON	RQ-002	24.85	24.85	60	48.6	800	0.55	300	1213	0.31	19.15	14.75	81	208 / 1	16	20	846	1MP0.2	1,2,3,4,5,6,7,8
AC-A-13	AAON	RQ-002	24.85	24.85	60	48.6	800	0.55	300	1213	0.31	19.15	14.75	81	208 / 1	16	20	846	1MP0.2	1,2,3,4,5,6,7,8

1. WEIGHT INCLUDES ALL OPTIONS AND ACCESSORIES.
2. PROVIDE WITH LOW LEAK ECONOMIZER WITH BAROMETRIC RELIEF.
3. PROVIDE WITH LOUVERED HAIL GUARDS, CONVENIENCE OUTLET, AND HINGED ACCESS PANELS.
4. PROVIDE WITH 2" MERV 13 FILTERS.
5. PROVIDE WITH VARIABLE SPEED COMPRESSOR.
6. HORIZONTAL DISCHARGE CONFIGURATION.
7. PROVIDE WITH RQ SERIES SOLID BOTTOM CURB.
8. PROVIDE VCCX FACTORY CONTROLLER.

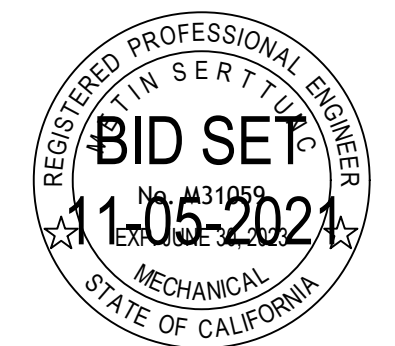
PACKAGED ROOFTOP AIR CONDITIONING UNITS SCHEDULE BLD-C																				
TAG	MANUFACTURER	MODEL NO.	COOLING MBH		HEATING MBH		AIRFLOW CFM	ESP. IN. W.G.	OUTSIDE AIR CFM	FAN RPM	MOTOR HP	SEER	EER	AFUE %	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
			TOTAL	SENSIBLE	INPUT	OUTPUT									V / PH	MCA	MOCP			
AC-B-1	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1435	0.84	19.2	12.9	81	208 / 3	25	35	925	1MP0.2	1,2,3,4,5,6,7,8
AC-B-2	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1435	0.84	19.2	12.9	81	208 / 3	25	35	925	1MP0.2	1,2,3,4,5,6,7,8
AC-B-3	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1435	0.84	19.2	12.9	81	208 / 3	25	35	925	1MP0.2	1,2,3,4,5,6,7,8
AC-B-4	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1435	0.84	19.2	12.9	81	208 / 3	25	35	925	1MP0.2	1,2,3,4,5,6,7,8
AC-B-5	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1435	0.84	19.2	12.9	81	208 / 3	25	35	925	1MP0.2	1,2,3,4,5,6,7,8,9
AC-B-6	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1435	0.84	19.2	12.9	81	208 / 3	25	35	925	1MP0.2	1,2,3,4,5,6,7,8,9
AC-B-7	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1435	0.84	19.2	12.9	81	208 / 3	25	35	925	1MP0.2	1,2,3,4,5,6,7,8,9
AC-B-8	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1435	0.84	19.2	12.9	81	208 / 3	25	35	925	1MP0.2	1,2,3,4,5,6,7,8,9
AC-B-9	AAON	RQ-004	46.34	46.34	60	48.6	1600	0.55	400	1435	0.84	19.2	12.9	81	208 / 3	25	35	925	1MP0.2	1,2,3,4,5,6,7,8,9

1. OPERATING WEIGHT.
2. PROVIDE WITH LOW LEAK ECONOMIZER WITH BAROMETRIC RELIEF.
3. PROVIDE WITH LOUVERED HAIL GUARDS, UNPOWERED CONVENIENCE OUTLET, AND HINGED ACCESS PANELS.
4. PROVIDE WITH 2" MERV 13 FILTERS.
5. PROVIDE WITH VARIABLE SPEED COMPRESSOR.
6. VERTICAL DISCHARGE CONFIGURATION.
7. PROVIDE WITH RQ SERIES SOLID BOTTOM CURB.
8. PROVIDE VCCX FACTORY CONTROLLER.


PACKAGED ROOFTOP HEAT PUMPS SCHEDULE BLD-MPR																		
TAG	MANUFACTURER	MODEL NO.	COOLING MBH		HEATING MBH	AIRFLOW CFM	ESP. IN. W.G.	OUTSIDE AIR CFM	FAN RPM	MOTOR HP	SEER	EER	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
			TOTAL	SENSIBLE									V / PH	MCA	MOCP			
HP-5	YORK	XN060	57.3	44.4	52.8	2000	0.8	500	1182	1.73	14	11	208 / 3	43.7	50	833	1MP0.2	1,2,3,4,5,6,7,8
HP-6	YORK	XN060	57.3	44.4	52.8	2000	0.8	500	1182	1.73	14	11	208 / 3	43.7	50	833	1MP0.2	1,2,3,4,5,6,7,8
HP-7	YORK	XN060	57.3	44.4	52.8	2000	0.8	500	1182	1.73	14	11	208 / 3	43.7	50	833	1MP0.2	1,2,3,4,5,6,7,8
HP-8	YORK	XN060	57.3	44.4	52.8	2000	0.8	500	1182	1.73	14	11	208 / 3	43.7	50	833	1MP0.2	1,2,3,4,5,6,7,8



1. REMOVE (E) SPLIT AC UNIT. REMOVE (E) REFRIGERANT PIPING. REMOVE (E) SUPPORT. PRESERVE ROOF OPENING FOR NEW REFRIGERANT PIPING. CONFIRM PENETRATION ON FIELD.
2. REMOVE (E) EXHAUST DUCT CAPS. VERIFY ACTUAL LOCATION IN FIELD. PATCH ROOF OPENING PER ARCHITECT'S DRAWINGS. SEE MP2.3 FOR RELOCATION.
3. (E) DUCT WORK TO REMAIN.
4. (E) EXHAUST FAN TO REMAIN.
5. REMOVE (E) THERMOSTAT COMPLETE.



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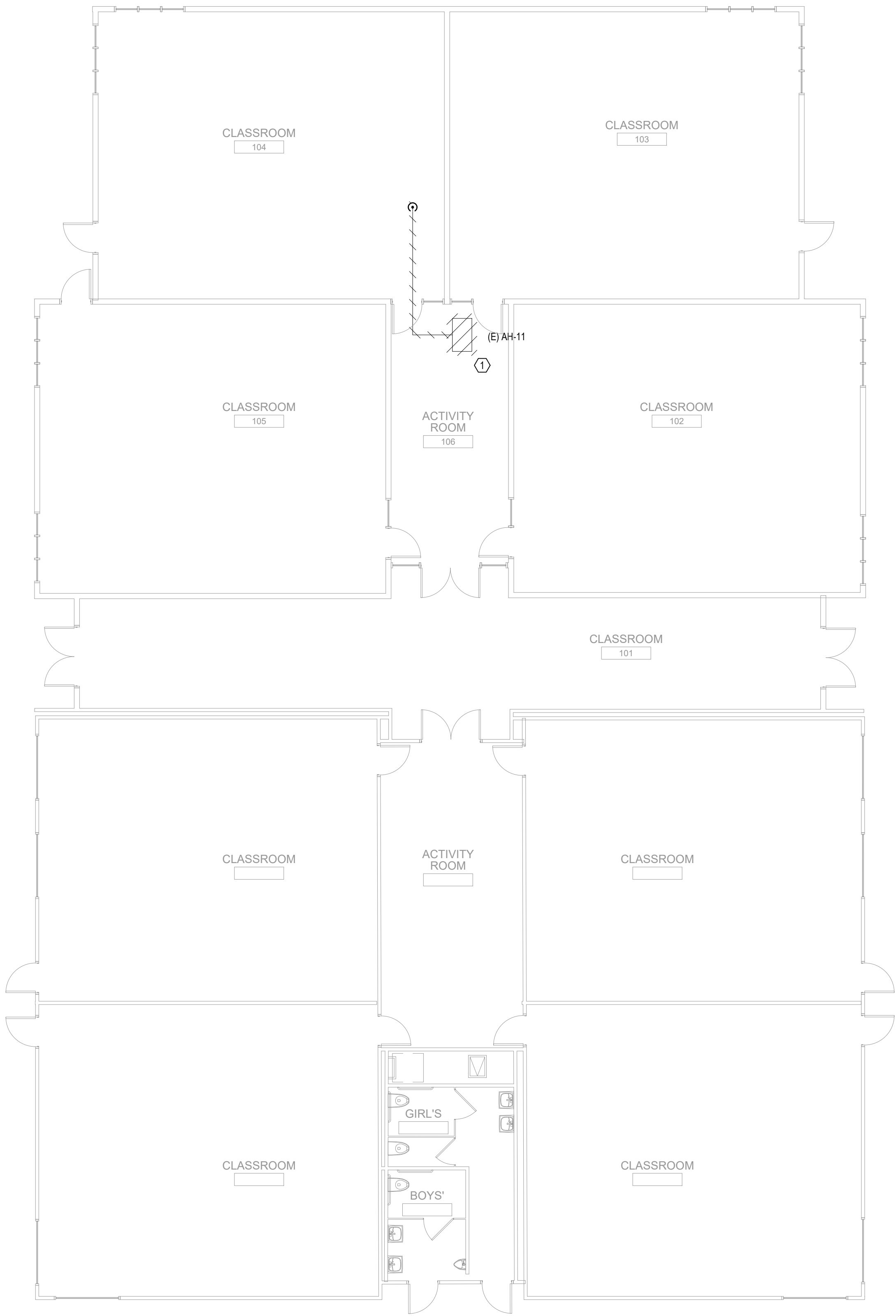
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Monterey, CA 93940
cypressseg.com

**BUILDINGS A & MPR - DEMOLITION FLOOR PLANS -
MECHANICAL & PLUMBING**

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

REVIEWS		
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20087	11/05/2021	

MP2.1



1 BUILDING C - DEMO FLOOR PLAN
MP2.2 SCALE: 1/8" = 1'-0"

BUILDING KEY

GENERAL NOTES

1.

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 TO VERIFY ALL EXISTING CURB DIMENSIONS BEFORE SUBMITTAL PROCESS / ORDERING EQUIPMENT AND PROVIDE CURB ADAPTERS AS REQUIRED.

4.

ALL PLUMBING VENTS TO STAY IN PLACE. EXTEND VENTS ABOVE NEW ROOF LEVEL WHERE REQUIRED.

DEMOLITION SHEET NOTES

1.

REMOVE (E) SPLIT AC UNIT. REMOVE (E) REFRIGERANT PIPING. REMOVE (E) SUPPORT. PRESERVE ROOF OPENING FOR NEW REFRIGERANT PIPING.

(DSA STAMP AREA)

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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
11-05-2021
MECHANICAL

CEG JOB NO: 21132

CYPRESS
Engineering Group

HVAC, Plumbing, Fire Protection
Building Commissioning
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BUILDING C - DEMOLITION FLOOR PLAN -
MECHANICAL & PLUMBING

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

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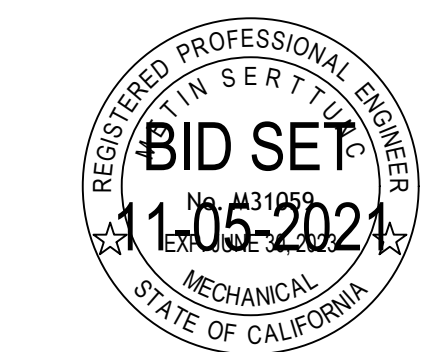
MP2.2



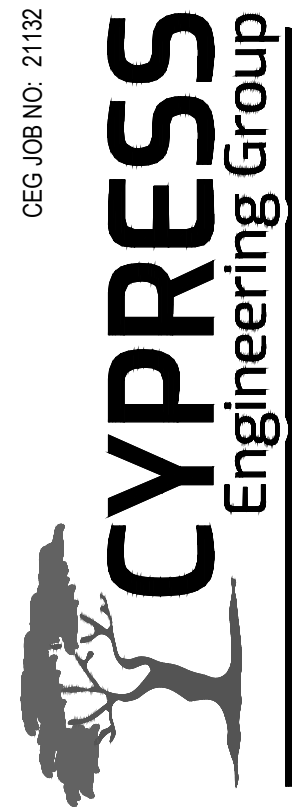
- (E) NEW SHEET NOTES**
1. CONTRACTOR TO PROVIDE AND INSTALL NEW SPLIT SYSTEM UNIT AT EXISTING DEMOLISHED UNIT.
 2. INSTALL NEW FAN COIL CONNECT NEW CO FROM FAN COILS TO (E) CO PIPING. LOCATE (E) CO PIPING IN FIELD. INSTALL NEW REFRIGERANT PIPING CONNECT NEW FAN COIL TO NEW CU ON ROOF. VERIFY REFRIGERANT LOCATION ON FIELD FOR REFRIGERANT PIPE.
 3. INSTALL NEW EXHAUST CAP AND CONNECT TO (E) DUCT. VERIFY SIZE IN FIELD.
 4. (E) DUCTWORK TO REMAIN.
 5. INSTALL NEW PELICAN WIRELESS TS250 THERMOSTAT AND WIRE TO FAN COIL.
 6. CONNECT NEW FAN COIL TO (E) DUCTWORK WITH FLEX CONNECTORS.

BUILDING KEY

(DSA STAMP AREA)



CEG JOB NO: 21132



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BUILDINGS A & MPR - NEW FLOOR PLANS - MECHANICAL & PLUMBING

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

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CHECKED BY:	C
SFA JOB NO:	DATE
20087	11/05/20

MP2.3

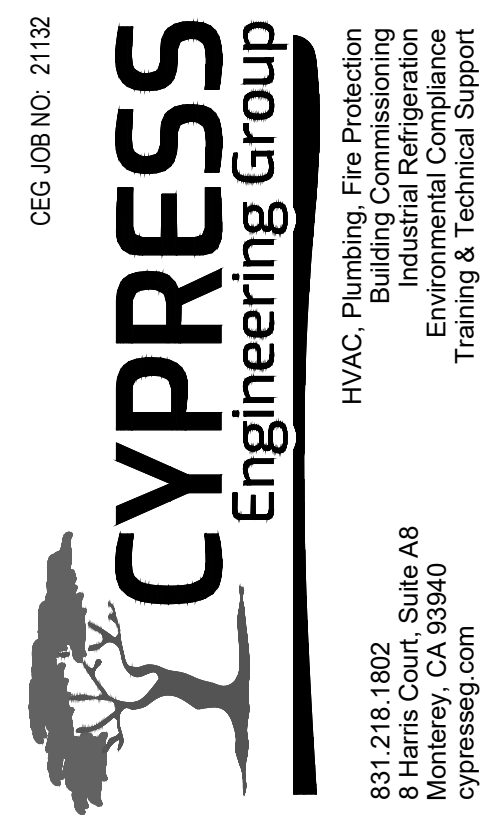
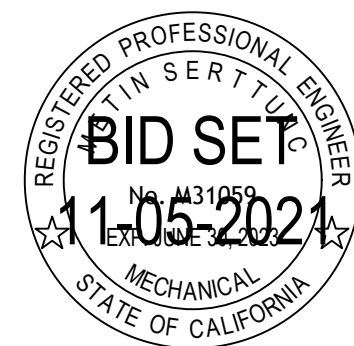


SCALE: 1/8" = 1'-0"

1. 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. PLANS ARE DRAWN FROM AVAILABLE RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND MAKE ADJUSTMENTS PRIOR TO ORDERING/FABRICATION.
4. CONTRACTOR SHALL CONNECT (E) PELICAN THERMOSTATS TO NEW UNITS.

1. CONTRACTOR TO PROVIDE AND INSTALL NEW SPLIT SYSTEM UNIT AT EXISTING DEMOLISHED UNIT.
2. INSTALL NEW FAN COIL. CONNECT NEW CD FROM NEW FAN COILS TO (E) CD PIPING . LOCATE (E) CD PIPING IN FIELD. INSTALL NEW REFRIGERANT PIPING CONNECTING NEW FAN COIL TO NEW CU ON ROOF.
3. CONNECT NEW FAN COIL TO (E) DUCTWORK WITH FLEX CONNECTORS.

(DSA STAMP AREA)



**BUILDING C - NEW FLOOR PLAN -
MECHANICAL & PLUMBING**

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

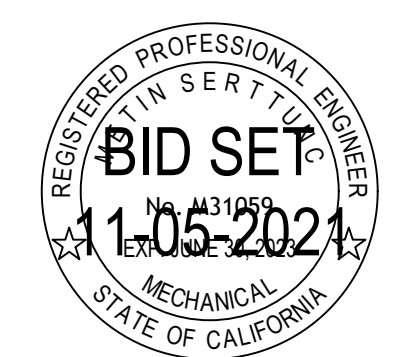
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MP2.4



- ## DEMOLITION SHEET NOTES
1. REMOVE (E) AC UNIT. REMOVE (E) ROOF CURB. PRESERVE ROOF OPENING FOR NEW AC UNIT.
 2. REMOVE (E) GAS PIPING ON ROOF UP TO POC AT UNION ON RISER. PROTECT ROOF OPENING FOR NEW GAS PIPING CONNECTION TO NEW AC UNIT.
 3. REMOVE (E) CD PIPING ON ROOF.
 4. REMOVE (E) ROOF EXHAUST FAN. REMOVE (E) ROOF CURB . PRESERVE ROOF OPENING FOR NEW ROOF EXHAUST FAN UNIT.
 5. REMOVE (E) SPLIT AC UNIT. REMOVE (E) REFRIGERANT PIPING. REMOVE (E) SUPPORT. PRESERVE ROOF OPENING FOR NEW REFRIGERANT PIPING.
 6. REMOVE (E) SUPPLY AND RETURN DUCTWORK ON THE ROOF. PRESERVE ROOF OPENINGS FOR NEW DUCTWORK.
 7. REMOVE (E) RELIEF HOOD. REMOVE (E) ROOF CURB. PRESERVE ROOF OPENING FOR NEW RELIEF HOOD.
 8. REMOVE, PROTECT AND STORE (E) KITCHEN FREEZER CONDENSING UNITS FOR RE-INSTALLATION.
 9. REMOVE (E) EXHAUST DUCT CAPS. VERIFY ACTUAL LOCATION IN FIELD.
 10. REMOVE (E) INTAKE HOOD. REMOVE (E) ROOF CURB. PRESERVE ROOF OPENING FOR NEW INTAKE HOOD.
 11. PATCH (E) ROOF OPENING PER ARCHITECTS' DIRECTION.



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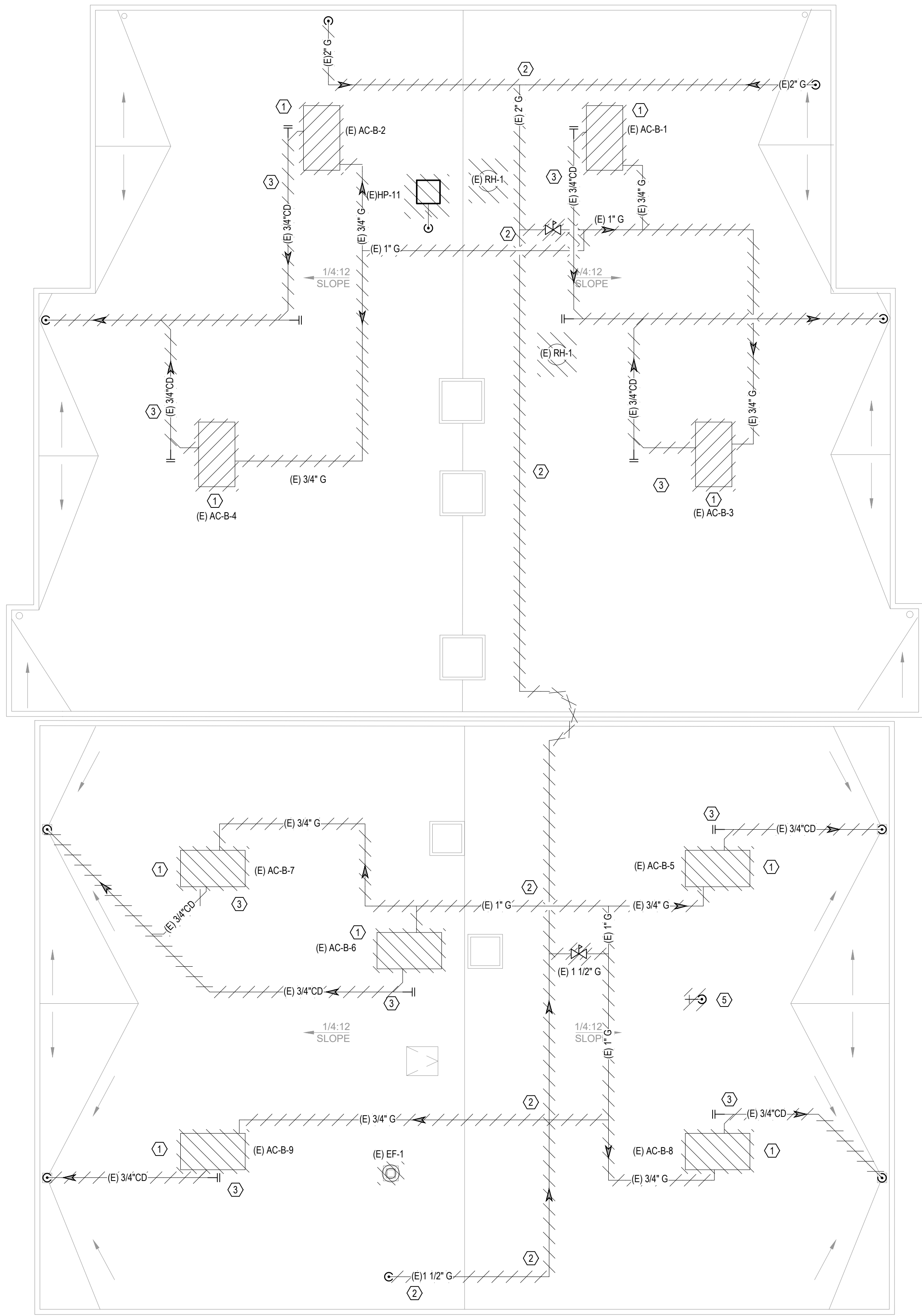
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NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
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PLEASANTON UNION SCHOOL DISTRICT

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MP3.1



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MP3.2

BUILDING C - DEMO ROOF PLAN

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

BUILDING KEY

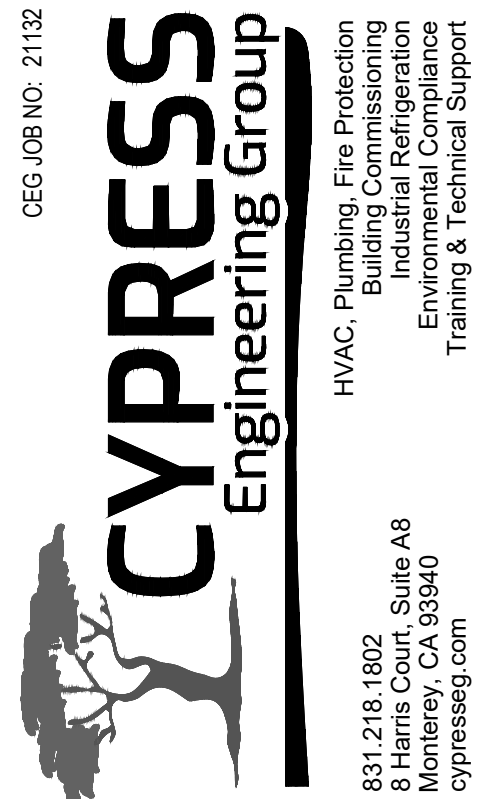
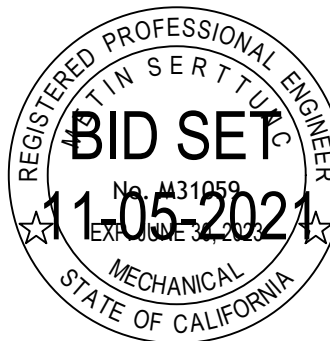
GENERAL NOTES

1. 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.

DEMOLITION SHEET NOTES

1. REMOVE (E) AC UNIT. REMOVE (E) ROOF CURB. PRESERVE ROOF OPENING FOR NEW AC UNIT.
2. REMOVE (E) GAS PIPING ON ROOF UP TO POC AT UNION ON RISER. PROTECT ROOF OPENING FOR NEW GAS PIPING CONNECTION TO NEW AC UNIT.
3. REMOVE (E) CD PIPING ON ROOF.
4. REMOVE (E) ROOF EXHAUST FAN. REMOVE (E) ROOF CURB. PRESERVE ROOF OPENING FOR NEW ROOF EXHAUST FAN UNIT.
5. REMOVE (E) HOSE BIBB ON ROOF. CAP (E) CW PIPE FOR CONNECTION TO NEW.

(DSA STAMP AREA)



BUILDING C - DEMOLITION ROOF PLAN - MECHANICAL & PLUMBING

**NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT**

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MP3.2



- ## ④ NEW SHEET NOTES
1. INSTALL NEW AC UNIT ON NEW ROOF CURB. ENSURE CORRECT UNIT ORIENTATION AND CONNECT TO (E) SUPPLY AND RETURN DUCTWORK.
 2. INSTALL NEW GAS PIPING WITH SHUTOFF, DIRT, GLEE, AND FLEX CONNECTION AT NEW AC UNIT. INSTALL NEW GAS PIPING FROM ROOF CURB UNITS ON RISER. CONNECT GAS PIPING TO AC UNIT PER DETAIL 3JMPO.2 FOR PIPE SUPPORT SEE DETAIL 4MP0.2.
 3. INSTALL NEW CD PIPING WITH T-PIECE TO NEW AC UNIT. ROUTE TO NEAREST ROOF DRAIN AND SPILL WITH 1" AIR GAP. CONNECT CD PIPING TO AC UNIT PER DETAIL 3JMPO.2 FOR PIPE SUPPORT SEE DETAIL 4MP0.2.
 4. CONTRACTOR TO PROVIDE AND INSTALL NEW SPLIT HP-1 & HP-2 UNIT AT EXISTING DEMOLISHED UNIT.
 5. INSTALL NEW SUPPLY AND RETURN DUCTWORK WITH 2" ACOUSTIC LINER FROM AC UNIT TO EXISTING ROOF DRAIN. PROVIDE HOOD ON NEW DUCTWORK TO SUPPLY AND RETURN DUCTWORK. AT CONNECTION TO AC UNIT, INSTALL FLEXIBLE CONNECTOR AND STEEL METAL RAIN HOOD ABOVE FLEX CONNECTION. DUCT SIZES SHOWN ARE INTERIOR DIMENSIONS AND DO NOT INCLUDE THE 2" ACOUSTIC LINER.
 6. INSTALL METRAFLEX GAS PIPE LOOP.
 7. INSTALL NEW FREEZER HOOD ON NEW ROOF CURB. ENSURE CORRECT UNIT ORIENTATION.
 8. REINSTALL (E) REFRIGER CONDENSING UNIT, RECONNECT TO PIPING AND STARTUP TO VERIFY OPERATION.
 9. INSTALL NEW REFRIGERANT PIPING CONNECTING NEW FAN COIL TO NEW HEAT PUMP ON ROOF.
 10. INSTALL NEW EXHAUST CAP AND CONNECT TO (E) DUCT. VERIFY SPLIT IN FIELD.
 11. CONTRACTOR TO PROVIDE AND INSTALL NEW SPLIT HP-1 & HP-A-2 UNIT AT EXISTING DEMOLISHED UNIT.
 12. INSTALL NEW INTAKE HOOD ON NEW ROOF CURB. ENSURE CORRECT UNIT ORIENTATION.

CEG JOB NO.: 2112

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Engineering Group

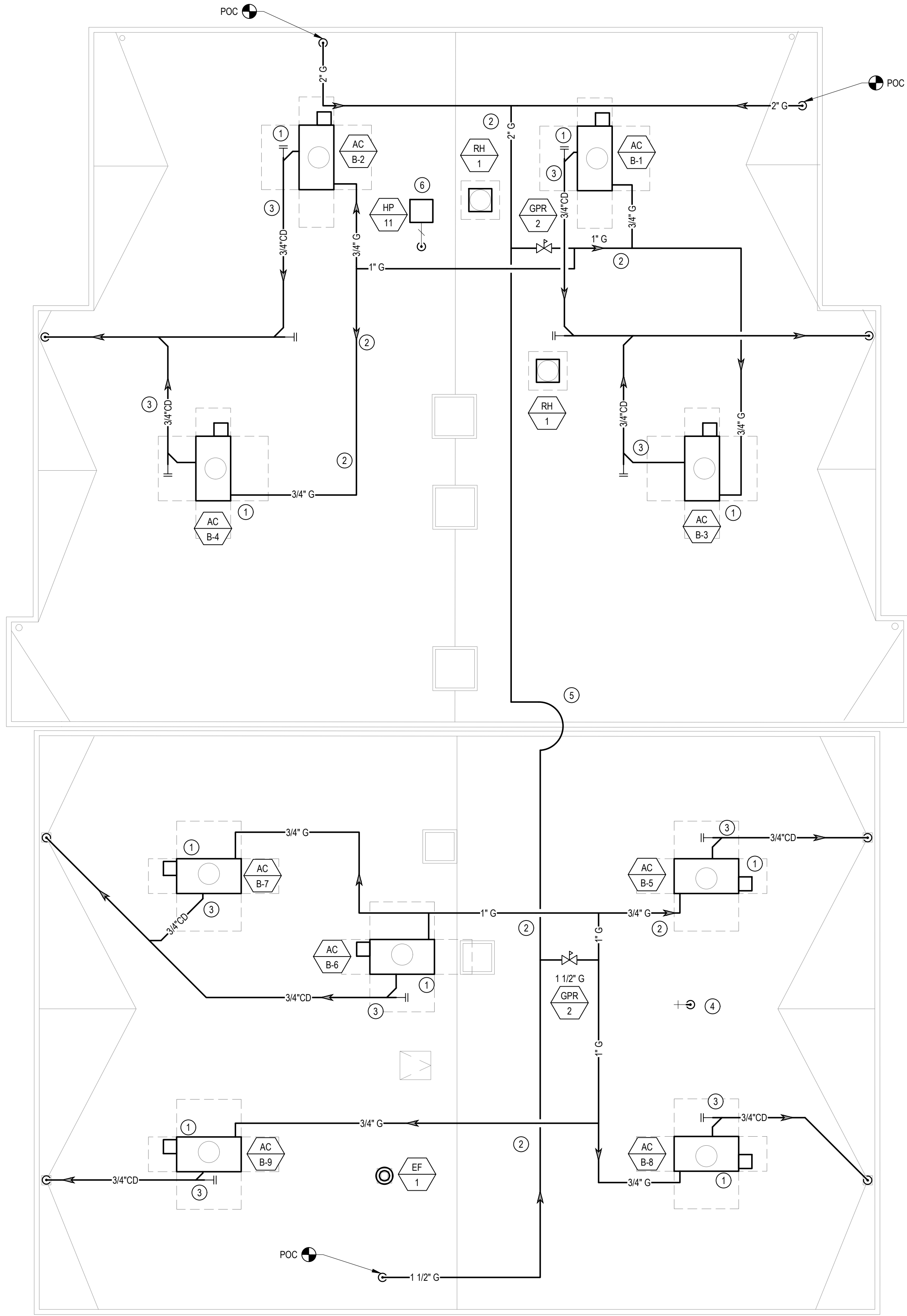
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NEW HVAC AND REROOFING
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PLEASANTON UNION SCHOOL DISTRICT

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MP3.3



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MP3.4

BUILDING C - NEW ROOF PLAN
SCALE: 1/8" = 1'-0"

BUILDING KEY

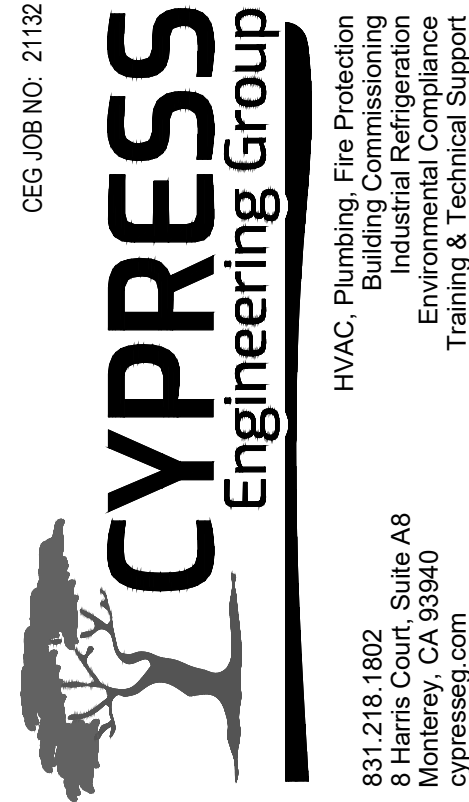
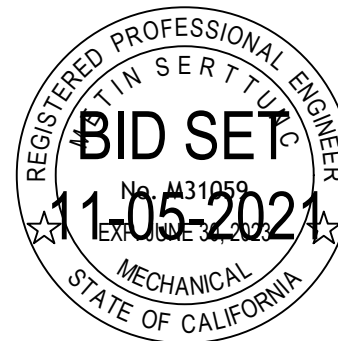
GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- 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.
- CONTRACTOR SHALL CONNECT (E) PELICAN THERMOSTATS TO NEW UNITS AND PELICAN ECONOMIZER CONTROLLER.
- CONTRACTOR TO VERIFY ALL EXISTING CURB DIMENSIONS BEFORE SUBMITTAL PROCESS / ORDERING EQUIPMENT AND PROVIDE CURB ADAPTERS AS REQUIRED.
- ALL PLUMBING VENTS TO STAY IN PLACE. EXTEND VENTS ABOVE NEW ROOF LEVEL WHERE REQUIRED.
- CHECK THE UNITS FOR HEATING, COOLING, ECONOMIZER, AND CONTINUOUS FAN OPERATION. COORDINATE WITH SCHOOL DISTRICT TO PROGRAM THERMOSTATS FOR OCCUPIED SCHEDULE HOURS.
- PLANS ARE DRAWN FROM AVAILABLE RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND MAKE ADJUSTMENTS PRIOR TO ORDERING/FABRICATION.
- FOR DUCT SUPPORTS ON ROOF, SEE 12MP6.1. FOR DUCT THRU ROOF, SEE 11MP6.1.
- FOR REFRIGERANT PIPING ROOF JACK, SEE 10MP6.1.
- INSTALL GAS PIPE ANCHORS PER 2MP6.1.

NEW SHEET NOTES

- PROVIDE WITH RO SERIES SOLID BOTTOM CURB. CONTRACTOR SHALL FIELD VERIFY (E) DUCT PENETRATION LOCATIONS AND PROVIDE OPENINGS AT BOTTOM OF CURB TO MATCH (E) DUCT LOCATIONS. ATTACH AND SEAL (E) DUCT CONNECTIONS.
- INSTALL NEW GAS PIPING WITH SHUTOFF VALVE, DIRT LEG, AND FLEX CONNECTION AT NEW AC UNIT. INSTALL NEW GAS PIPING FROM POC AT UNION ON RISER. CONNECT GAS PIPING TO AC UNIT PER DETAIL 3MP0.2. FOR PIPE SUPPORT SEE DETAIL 4MP0.2.
- 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 3MP0.2. FOR PIPE SUPPORT SEE DETAIL 4MP0.2.
- CONNECT A NEW HOSE BIBB ON ROOF TO EXISTING WATER PIPING.
- INSTALL METRAFLEX GAS PIPE LOOP.
- CONTRACTOR TO PROVIDE AND INSTALL NEW SPLIT HP-11 UNIT AT EXISTING DEMOLISHED UNIT.

(DSA STAMP AREA)



**BUILDING C - NEW ROOF PLAN -
MECHANICAL & PLUMBING**

**NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT**

REVISIONS
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MP3.4

	<div><p>DETAIL NOTES:</p><ol style="list-style-type: none">1. GALVANIZED SHEET METAL ROOF JACK WITH CAP.2. FILL OPENING WITH FOAM.3. FRAMED ROOF OPENING. SEE ARCHITECT'S DRAWINGS FOR FLASHING.4. ROOFING.5. REMOVABLE COVER ATTACHED WITH TWO (2) #8 SELF TAPPING SCREWS EACH SIDE.6. PIPE.7. PIPE INSULATION.</div>	
10	PIPING ROOF JACK	N.T.S.
	<div></div>	
7	SPLIT SYSTEM HEAT PUMP/CONDENSING UNIT MOUNTING ON SLEEPER	N.T.S.
	<div><p>DETAIL NOTES:</p><ol style="list-style-type: none">1. FOR PIPE SIZES AND TYPES, SEE PLANS.2. PROVIDE GAP BETWEEN INTEGRAL STRUT CHANNEL AND HARDWARE USED TO SECURE PIPE TO ALLOW FOR MOVEMENT OF SYSTEM.3. ROOF DECK.4. SET SUPPORT IN MASTIC COMPATIBLE WITH ROOF SURFACE.5. PROVIDE STANDARD STRUT CLAMPS.6. B-LINE DURA-BLOCK WITH INTEGRAL CHANNEL AND PIPE BRACKETS. WIDTH AS REQUIRED FOR NUMBER OF PIPES.<p>NOTES:</p><ol style="list-style-type: none">1. REFER TO SPECIFICATIONS FOR SPACING BETWEEN SUPPORT BLOCKS. ADDITIONALLY PROVIDE BLOCK WITHIN 2'-0" OF ANY CHANGE OF DIRECTION.</div>	
4	PIPE SUPPORT ON ROOF	N.T.S.
	<div></div>	
1	ROOFTOP AIR CONDITIONER MOUNTING ON NEW CURB	N.T.S.
	<div></div>	
11	DUCT THROUGH ROOF	N.T.S.
	<div></div>	
8	CEILING CASSETTE FAN COIL DETAIL	N.T.S.
	<div></div>	
5	ROOF MOUNTED FAN	N.T.S.
	<div></div>	
2	GAS PIPE ANCHOR ON ROOF	N.T.S.
	<div></div>	
12	DUCT SUPPORT ON ROOF	N.T.S.
	<div></div>	
9	FAN COIL MOUNTING	N.T.S.
	<div></div>	
6	SPLIT SYSTEM FAN COIL MOUNTING	N.T.S.
	<div></div>	
3	GAS AND CONDENSATE DRAIN CONNECTION TO EQUIPMENT	N.T.S.

(DSA STAMP AREA)

SUCUMURA FINNEY ARCHITECTS

SFA

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PHONE: 925.277.9117
FAX: 925.277.9118

BID SET

11-05-2021

REGISTERED PROFESSIONAL MECHANICAL ENGINEER
STATE OF CALIFORNIA

CEG JOB NO.: 21132

CYPRESS Engineering Group

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Training & Technical Support

DETAILS - MECHANICAL

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

REVISIONS	NO.	ITEM	DATE

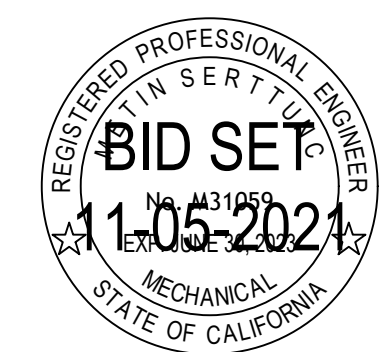
DRAWN BY: CAD

CHECKED BY: CS


SFA JOB NO: 20087

DATE: 11/05/2021

MP6.1



CEG JOB NO. 21132

 **CYPRESS**
Engineering Group

HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Energy Conservation
Training & Technical Support

318.218.1932
Suite A8
10000 Main Street
CA 93940
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cypresseng.com

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

[illegible]

MP7.1



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

CERTIFICATE OF COMPLIANCE
 Project Name: Roofing and HVAC Replacement Vintage Hills Elementary School Report Page: Page 7 of 11
 Project Address: 1125 Concord St Pleasanton, CA 94566 Date Prepared: 2021-11-03

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/.

YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector	
				Pass	Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-MCH-03-A Constant Volume Single Zone HVAC. NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-04-A Air Distribution Duct Leakage		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-MCH-05-A Air Economizer Controls		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)(3)) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-07-A Supply Fan Variable Flow Controls		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-08-A Valve Leakage Test		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-09-A Supply Water Temperature Reset Controls		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-10-A Hydronic System Variable Flow Controls		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-11-A Automatic Demand Shed Controls		<input type="checkbox"/>	<input type="checkbox"/>

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<input checked="" type="radio"/>	<input type="radio"/>	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance. NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX AC Systems are included in the scope, permit applicant should move this form to "Yes".		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance. NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eutectic Salt, Clothrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-16-A Supply Air Temperature Reset Controls		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-17-A Condenser Water Temperature Reset Controls		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-18 Energy Management Control Systems		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-19 Occupancy Sensor Controls		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-20 Multi-Family Ventilation		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-21 Multi-Family Envelope Leakage		<input type="checkbox"/>	<input type="checkbox"/>

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P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/.

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input type="radio"/>	<input checked="" type="radio"/>	NRCV-MCH-04-H Duct Leakage Test. NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCV-MCH-24 Enclosure Air Leakage Worksheet. NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCV-MCH-27 High-rise Residential. NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCV-MCH-32 Local Mechanical Exhaust. NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

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CERTIFICATE OF COMPLIANCE
 Project Name: Roofing and HVAC Replacement Vintage Hills Elementary School Report Page: Page 4 of 11
 Project Address: 1125 Concord St Pleasanton, CA 94566 Date Prepared: 2021-11-03

I. SYSTEM CONTROLS
 Table Instructions: Complete the following Table to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(i) and (j) or requirements in §141.0(b)(2) for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)¹ §120.2(a) or §141.0(b)(2)	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.7(a)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
AC	single zone	≤ 25,000 ft²	Setback + DR Tstat per §110.12	NA: 7 day per §120.2(e)¹	NA: Single Zone	DR Tstat per §110.12	NA: Single Zone	NA: Alteration project

¹ FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.
 * NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
 EX- System 1: SA Temp Reset: Exempt because zones compliant with §140.4(d); EXCEPTION 1 to §140.4(i)

J. VENTILATION AND INDOOR AIR QUALITY
 Table Instructions: Complete the following Table to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(c)(3) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

01	02	03
<input checked="" type="checkbox"/>	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.	
<input type="checkbox"/>	Check this box if the project includes Nonresidential or Hotel/Motel spaces	
<input type="checkbox"/>	Check this box if the project includes new or altered high-rise residential dwelling units	
<input type="checkbox"/>	Check the box if the project is using natural ventilation in any spaces to meet required ventilation rates per §120.1(c)(2).	

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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)(1): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems 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 §120.2(a)(2) requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless exempt by §130.1(c).

K. TERMINAL BOX CONTROLS
 This Section Does Not Apply

L. DISTRIBUTION (DUCTWORK AND PIPING)
 Table Instructions: Complete the following tables to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(i) for duct leakage testing.

Duct Leakage Sealing

11	12	13	14
No	The scope of the project includes only duct systems serving healthcare facilities.		
Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
	<input type="checkbox"/> Outdoors		
	<input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(1) or if the roof has fixed vents or openings to the outdoors/unconditioned spaces		
	<input type="checkbox"/> In an unconditioned crawlspace		
	<input type="checkbox"/> In other unconditioned spaces		
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

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Table Continued

17	18
	Duct system shall be sealed in accordance with the California Mechanical Code.

M. COOLING TOWERS
 This Section Does Not Apply

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/.

YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector	
				Pass	Fail
<input checked="" type="radio"/>		NRCC-MCH-01-E - E - Must be submitted for all buildings.		<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

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CERTIFICATE OF COMPLIANCE
 Project Name: Roofing and HVAC Replacement Vintage Hills Elementary School Report Page: Page 1 of 11
 Project Address: 1125 Concord St Pleasanton, CA 94566 Date Prepared: 2021-11-03

A. GENERAL INFORMATION
 01 Project Location (city) Pleasanton
 02 Climate Zone 12
 04 Total Conditioned Floor Area
 05 Total Unconditioned Floor Area
 06 # of Stories (Habitable Above Grade)
 07 Occupancy Types Within Project:
☐ Office (B) ☐ Retail (M)
☐ Hotel/ Motel Guest Rooms (R-1) ☒ School (E)
☐ High Rise Residential (R-2/R-3) ☐ Relocatable Class Bldg (E)
☐ Other (Write In):
 FOOTNOTES: Climate zone can be determined on the California Energy Commission's website at http://www.energy.ca.gov/maps/renewable/building_climate_zones.html

B. PROJECT SCOPE
 Table Instructions: Include any mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)(2) for alterations.

My project consists of (check all that apply)		
01	02	03
Air System(s)	Wet System Components	Dry System Components
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input checked="" type="checkbox"/> Air Economizer
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
<input type="checkbox"/> Mechanical Controls	<input type="checkbox"/> Hydronic System Piping	<input type="checkbox"/> Fan Systems
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input checked="" type="checkbox"/> Cooling Towers	<input checked="" type="checkbox"/> Ductwork (existing to remain, altered or new)
	<input type="checkbox"/> Chillers	<input type="checkbox"/> Ventilation
	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/ Terminal Boxes

C. COMPLIANCE RESULTS
 Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

01	02	03	04	05	06	07	08	09
System Summary §110.1, §110.2, §140.4	Pumps §140.4(n)	Fans/ Economizers §140.4(a), §140.4(e)	System Controls §110.2, §120.2, §140.4(f)	Ventilation §120.1	Terminal Box Controls §140.4(d)	Distribution §120.3, §140.4(i)	Cooling Towers §110.2(e)(2)	Compliance Results
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	
Yes	AND	AND	Yes	AND	Yes	AND	Yes	AND
Mandatory Measures Compliance (See Table Q for Details)								COMPLIES

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D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table H indicates a Fan Power System Index that exceeds the maximum allowed per §140.4(c). Please revise to demonstrate compliance. Selections made in Table D have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

E. ADDITIONAL REMARKS
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
 Table Instructions: Complete the following equipment schedules to show compliance with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(c) or §141.0(b)(2) for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 & Title 20	Smallest Size Available¹ §140.4(a)	Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4(a)(b)		Cooling Output²³		Load Calculations³⁴		
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
AC	Unitary AC/ Condensers	AC, air cooled, package (3 phase)	Yes	54	67		46	60		

¹ FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are exempted.
 ² It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
 ³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
 ⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).
 Table Continued

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Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Heating Mode	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency	Efficiency Unit	Cooling Mode
AC	<65,000				0.8		SEER	16

G. PUMPS
 This Section Does Not Apply

H. FAN SYSTEMS & AIR ECONOMIZERS
 Table Instructions: Complete the following Table for fan systems to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m). First document the system details, then add fans within that system to document compliance with fan power requirements. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name:	AC	Economizer¹	Differential Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Design Airflow through Device (CFM)
AC	Supply	1	1,800	BHP	1.05	None used Calculated Adjustment (in H ₂ O)	
Total System Design Supply Airflow (CFM):		1,800	Total System Design (B)HP:		1.05	Maximum System Fan Power (B)HP:	

¹ FOOTNOTE: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.
 ² The unit used for HP must be consistent for all fans within a system.

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Q. MANDATORY MEASURES DOCUMENTATION LOCATION
Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A", any active cells that are left blank will result in non-compliance in Table C.

01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	No
03	04
Mandatory Measure	Plan sheet or construction document location
Heating Equipment Efficiency per §110.1	MP8.2
Cooling Equipment Efficiency per §110.1	MP8.2
Furnace Standby Loss Control per §110.2(d)	NA
Duct Insulation per §120.4	230500
Heating Hot Water Equipment Efficiency per §110.1	NA
Cooling Chilled and Condenser Water Equipment Efficiency per §110.1	NA
Open and Closed Circuit Cooling Towers conductivity of flow-based controls per §110.2(e)1	NA
Open and Closed Circuit Cooling Towers Flow Meter with analog output per §110.2(e)3	NA
Open and Closed Circuit Cooling Towers Overflow Alarm per §110.2(e)4	NA
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators per §110.2(e)5	NA
Pipe Insulation per §120.3(b)	NA
Combustion air shutoff, combustion air fan controls and stack design and controls for boilers per §120.9	NA
Heat Pump with Supplementary Electric Resistance Heater Controls per §110.2(b)	NA
The air duct and plenum system is designed per §120.4(a)-(f)	NA
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2	NA

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September 2020

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Date Prepared: 2021-11-03
CALIFORNIA ENERGY COMMISSION
NRCC-MCH-E

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Chahan Shah
Documentation Author Signature: Chahan S. Shah
Company: Cypress Engineering Group
Signature Date: 11/3/21
Address: 8 Harris Court, Suite A8
CEA/HERS Certification Identification (if applicable):
City/State/Zip: Monterey, CA 93940
Phone: 8312181802
RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: Metin Serttunc
Responsible Designer Signature: Metin Serttunc
Company: Cypress Engineering Group
Date Signed: 11/3/21
Address: 8 Harris Court, Suite A8
License: M31059
City/State/Zip: Monterey, CA 93940
Phone: 8312181802
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

REVISIONS
NO. ITEM DATE

DRAWN BY: CAD
CHECKED BY: CS
SFA JOB NO: 20087
DATE: 11/05/2021

TITLE 24 FORMS - MECHANICAL

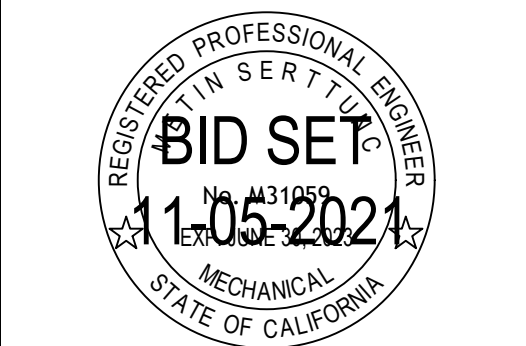
NEW HVAC AND REROOFING
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CEG JOB NO: 21132

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HVAC, Plumbing, Fire Protection
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GENERAL CONSTRUCTION NOTES

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
- CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL PROPERTY DAMAGE. TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
- CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
- ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.
- ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
- ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS NOT ALLOWED.
- COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
- CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
- ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE NECESSARY. WHERE IT IS NECESSARY TO CUT OR BORE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL WORK OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO STARTING WORK. REUSE EXISTING CONDUIT WHERE POSSIBLE.
- WHERE IT IS NOT POSSIBLE TO REUSE EXISTING CONDUIT OR RUN NEW CONCEALED CONDUIT USE NON-METALLIC SURFACE RACEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR DAMAGE TO EXISTING UNDERGROUND SYSTEMS AS A RESULT OF NEW WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE OWNER.
- WHERE NON-METALLIC SHEATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO FULLEST EXTENT PER THE GENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL CLAD CABLE WILL BE PERMITTED ON A CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT.
- ALL INSTALLATION OF EXPOSED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY ARCHITECT BEFORE ROUGH-IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC, FURRED SPACE, HOLLOW WALLS, ETC. IN EACH AREA AND REVIEW WITH ARCHITECT. IF SYSTEM CAN BE ROUTED CONCEALED EITHER BY FISHING OR ACCESSIBILITY, CONTRACTOR IS TO DO SO. IF INACCESSIBILITY IS DETERMINED, CONTRACTOR SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY PLEASING MEANS AS DETERMINED BY THE ARCHITECT. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE ARCHITECT WILL BE MADE.

GENERAL DEMOLITION NOTES

- CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.
- REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE PLANS AND AS REQUIRED BY THESE DEMOLITION NOTES.
- RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN EXISTING REMAINING WALLS MAY BE ABANDONED IN PLACE. REMOVE WIRING FROM CONDUIT.
- RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED.
- WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK TO LAST ACTIVE REMAINING OUTLET, DEVICE, FIXTURE OR PANEL.
- ELECTRICAL CONTRACTOR SHALL INSURE THAT ALL REMAINING ACTIVE CIRCUITS, DEVICES, OUTLETS, LIGHT FIXTURES, ETC. HAVE NOT BEEN DISCONNECTED OR MADE INOPERATIVE DURING DEMOLITION. ELECTRICAL CONTRACTOR SHALL RESTORE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.
- ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND MATERIAL.
- NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.
- EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
- EXISTING FLUSH OUTLETS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK. MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND COINCIDE WITH LOCATION SHOWN FOR THE NEW WORK.
- FLUSH OUTLET BOXES IN EXISTING WALLS TO REMAIN MAY BE ABANDONED IN PLACE. REMOVE DEVICES AND WIRING, PLUG OPENING AND PROVIDE AND INSTALL A BLANK DEVICE PLATE.
- EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
- WHERE TELEPHONE, COMPUTER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS OUTLETS OR WIRING IS TO BE DEMOLISHED IT SHALL BE REMOVED BACK TO THE NEXT TERMINAL POINT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER OR HIS REPRESENTATIVE TO HAVE EQUIPMENT AND WIRING DESIGNATED FOR REMOVAL OR PRESERVATION PRIOR TO REMOVAL OF OUTLET BOXES, CONDUIT OR WIRING BY ELECTRICAL CONTRACTOR.
- COORDINATE WITH OWNER PRIOR TO START OF DEMOLITION TO MINIMIZE POWER INTERRUPTIONS. WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS.

ELECTRICAL SYMBOLS & ABBREVIATIONS

SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE. DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS.

	SECURITY DOOR CONTACTS		PANELBOARD - FLUSH MOUNTED		DETAIL NOTE REFERENCE SYMBOL SEE ASSOCIATED NOTE ON SAME DETAIL
	SECURITY MOTION DETECTOR		EQUIPMENT PANEL - FLUSH MOUNTED		DETAIL NUMBER DETAIL OR SECTION REFERENCE SHEET NUMBER
	CCTV CAMERA		PANELBOARD - SURFACE MOUNTED		FEEDER DESIGNATION: SEE ASSOCIATED NOTE ON SAME DETAIL
	SECURITY SYSTEM KEYPAD		METER W/ CURRENT TRANSFORMER	ABBREVIATIONS	
	DOOR BELL PUSHBUTTON		JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES	A	AMPERE
	DOOR CHIME WITH LED		MOTOR CONNECTION	AFF	ABOVE FINISHED FLOOR
	RECEPTACLE - DUPLEX *		NON-FUSED DISCONNECT SWITCH	ALUMAL	ALUMINUM
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		FUSED DISCONNECT SWITCH; FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MPGRS NAMEPLATE DATA	ARCH	ARCHITECT
	GFCI CONVENIENCE RECEPTACLE - DUPLEX *		COMBINATION STARTER/FUSED DISCONNECT SWITCH; FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MPGRS NAMEPLATE DATA	AWG	AMERICAN WIRE
	GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED	BKR	BREAKER
	RECEPTACLE - DOUBLE DUPLEX *		CIRCUIT BREAKER	CONDUIT	CONDUIT
	HALF SWITCHED DUPLEX RECEPTACLE *		GROUND ROD WITH GROUNDWELL BOX	CATV	CABLE TV
	SINGLE RECEPTACLE *		GROUND ELECTRODE	CB	CIRCUIT BREAKER
	DUPLEX RECEPTACLE - CEILING MOUNTED		NORMALLY OPEN CONTACT	CCTV	CLOSED CIRCUIT TV
	LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE *		NORMALLY CLOSED CONTACT	CKT	CIRCUIT
	LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE *		TRANSFORMER - SEE SINGLE LINE FOR SIZE	CL	CENTER LINE
	FLOOR MOUNTED DUPLEX RECEPTACLE		PULLBOX	CLG	CEILING
	FLOOR MOUNTED BOX		FLEX CONDUIT WITH CONNECTION	C.O.	CONDUIT ONLY
	POWER OUTLET - SEE PLANS FOR NEMA TYPE *		CONDUIT - UP	CTR	CENTER
	POWER POLE		CONDUIT - DOWN	DM	DIMMER
	WALL TELEPHONE OUTLET **		SURFACE METAL OR NON-METALLIC RACEWAY	DIST	DISTRIBUTION
	VOICE/DATA WALL OUTLET *		CONDUIT - EXISTING	(E)	EXISTING
	VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		CONDUIT - CONCEALED IN WALLS OR CEILING	EC	ELECTRICAL CONTRACTOR
	SURFACE MOUNTED VOICE/DATA WALL OUTLET *		CONDUIT - BELOW SLAB OR UNDERGROUND; 3/4" MIN.	(EL)	EVENING LIGHT
	SURFACE MOUNTED VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		CAPPED OR STUB-OUT CONDUIT	EM	EMERGENCY
	WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED		CONDUIT CONTINUATION	EMT	ELECTRICAL
	WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT		CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. AS INDICATED	(EJ)	ELECTRIC JUNCTION
	VOICE/DATA OUTLET - FLOOR MOUNTED		RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.	EQUIP	EQUIPMENT
	TV OUTLET *		CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG.	EV	ELECTRICAL VEHICLE
	VOICE/DATA OUTLET - CEILING MOUNTED		SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET	FA	FIRE ALARM
	INTERIOR SPEAKERS CEILING MOUNTED		SCHEDULE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET	FACP	FIRE ALARM CONTROL PANEL
	INTERIOR SPEAKERS WALL MOUNTED			FC	FOOT CANDLE
	CLOCK *8-0" AFF U.O.N. VERIFY BEFORE INSTALLATION			FIN	FINISH
				FL	FLOOR
				FLA	FULL LOAD AMPS
				FLUOR	FLUORESCENT
				F	FUTURE
				GC	GENERAL CONTRACTOR
				(NL)	NOT IN ELECTRICAL
				NO	NUMBER
				NOM	NOMINAL

FIRE ALARM

NOTE: SEE FIRE ALARM DRAWINGS FOR QUANTITIES AND MOUNTING HEIGHTS.

	MANUAL PULL STATION		DUCT SMOKE DETECTOR		AUXILIARY POWER SUPPLY
	STROBE ONLY		TAMPER SWITCH		FIRE SYSTEM ANNUNCIATOR
	HORN ONLY		FLOW SWITCH		FIRE ALARM TRANSPONDER OR TRANSMITTER
	MINI HORN		POST INDICATING VALVE		ELEVATOR STATUS/RECALL
	HORN/STROBE		FIRE SMOKE DAMPER		FIRE ALARM COMMUNICATOR
	CHIME/STROBE		BELL (GONG)		REMOTE ANNUNCIATORS
	HEAT DETECTOR		FIRE ALARM CONTROL PANEL		END OF LINE
	SMOKE DETECTOR				
	CARBON MONOXIDE ALARM				

APPLICABLE CODES & STANDARDS

CODES:

- 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.
- 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 (UPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
- 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
- 2019 CALIFORNIA FIRE CODE (FC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
- 2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
- TITLE 19 C.C.R. - PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- NATIONAL FIRE ALARM CODE (NFPA 72) 2016.

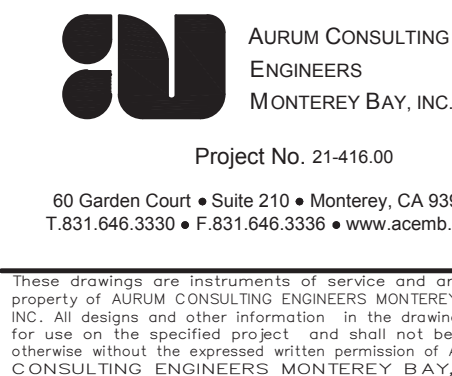
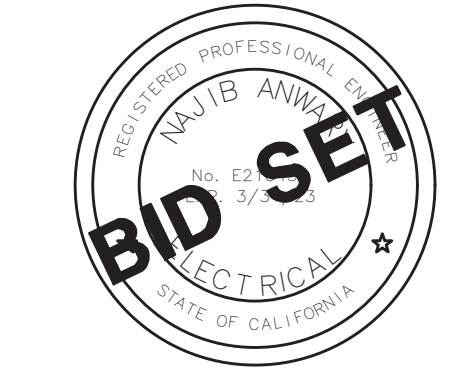
STANDARDS:

- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
- INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
- UNDERWRITER LABORATORIES (UL)
- CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX

- | | |
|-------|---|
| E0.1 | SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, EQUIPMENT ANCHORAGE, NOTES & SHEET INDEX. |
| E1.1 | PARTIAL ELECTRICAL SINGLE LINE DIAGRAM, DETAILS & PANELBOARD SCHEDULE. |
| E2.1 | ELECTRICAL SITE PLAN. |
| E3.1 | ELECTRICAL DEMOLITION PLANS - BUILDING A & MULTIPURPOSE BUILDING. |
| E3.2 | ELECTRICAL DEMOLITION PLAN - BUILDING C. |
| E4.1 | ELECTRICAL ROOF PLANS - BUILDING A & MULTIPURPOSE BUILDING. |
| E4.2 | ELECTRICAL ROOF PLAN - BUILDING C. |
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| E4.4 | POWER PLAN - BUILDING C. |
| FA0.1 | FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, BATTERY CALCULATION, OPERATIONAL MATRIX, NOTES & FIRE ALARM RISER DIAGRAM. |
| FA4.1 | FIRE ALARM PLAN - BUILDING A. |
| FA4.2 | FIRE ALARM PLAN - BUILDING C. |

(DSA STAMP AREA)



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SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, EQUIPMENT ANCHORAGE, NOTES & SHEET INDEX

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

NO.	ITEM	DATE
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SFA JOB NO: 20087
DATE: 11/05/2021

E0.1

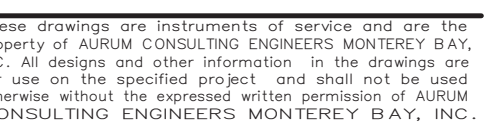
1. PROVIDE AND INSTALL CHRISTY #N16 PULLBOX WITH LID LABELED "FIRE ALARM".
2. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 2" C. FOR FIRE ALARM CABLES & (1) 2" C.O. FOR FUTURE USE.
3. CONTRACTOR SHALL STUB 2" C.O. INTO PULLBOX FOR FUTURE USE.

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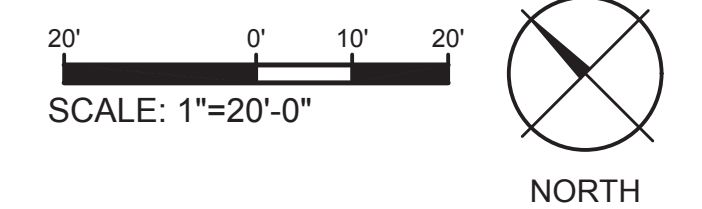
ARCHITECTURE INTERIORS PLANNING

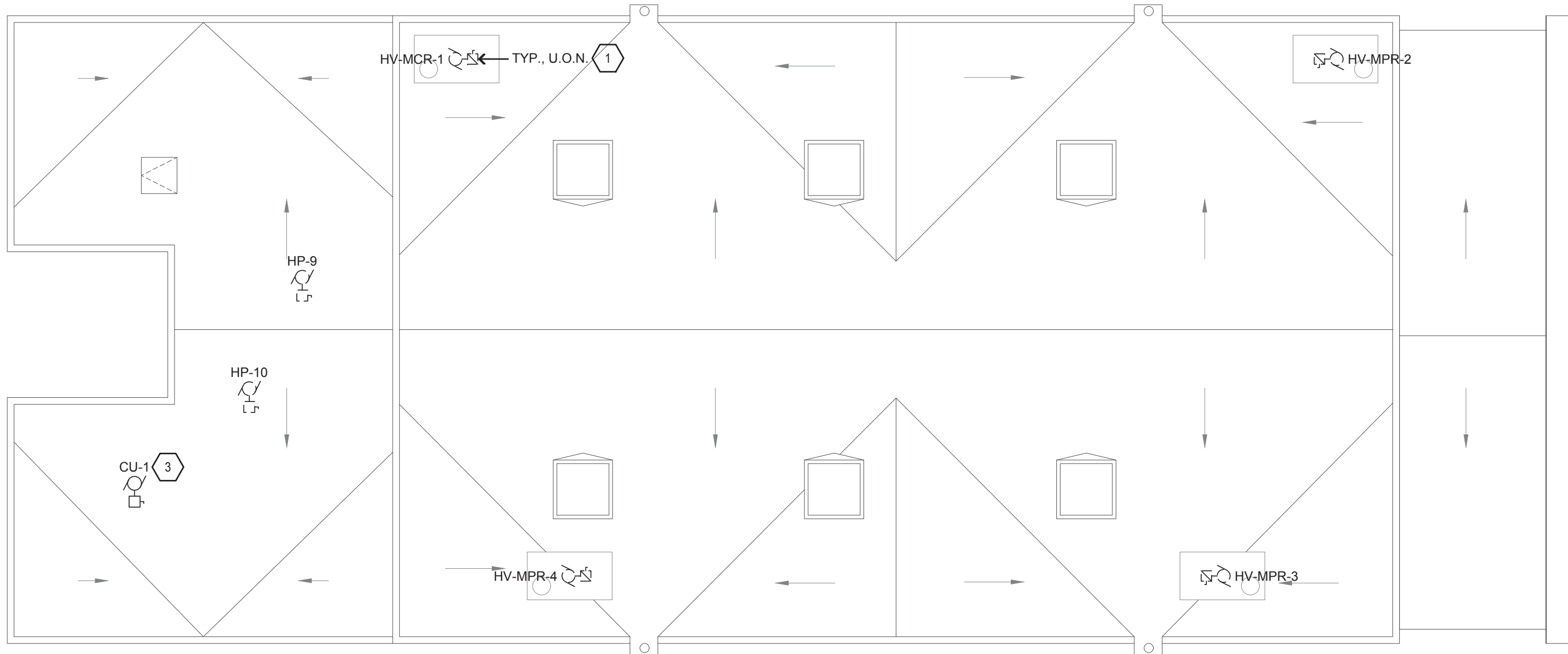
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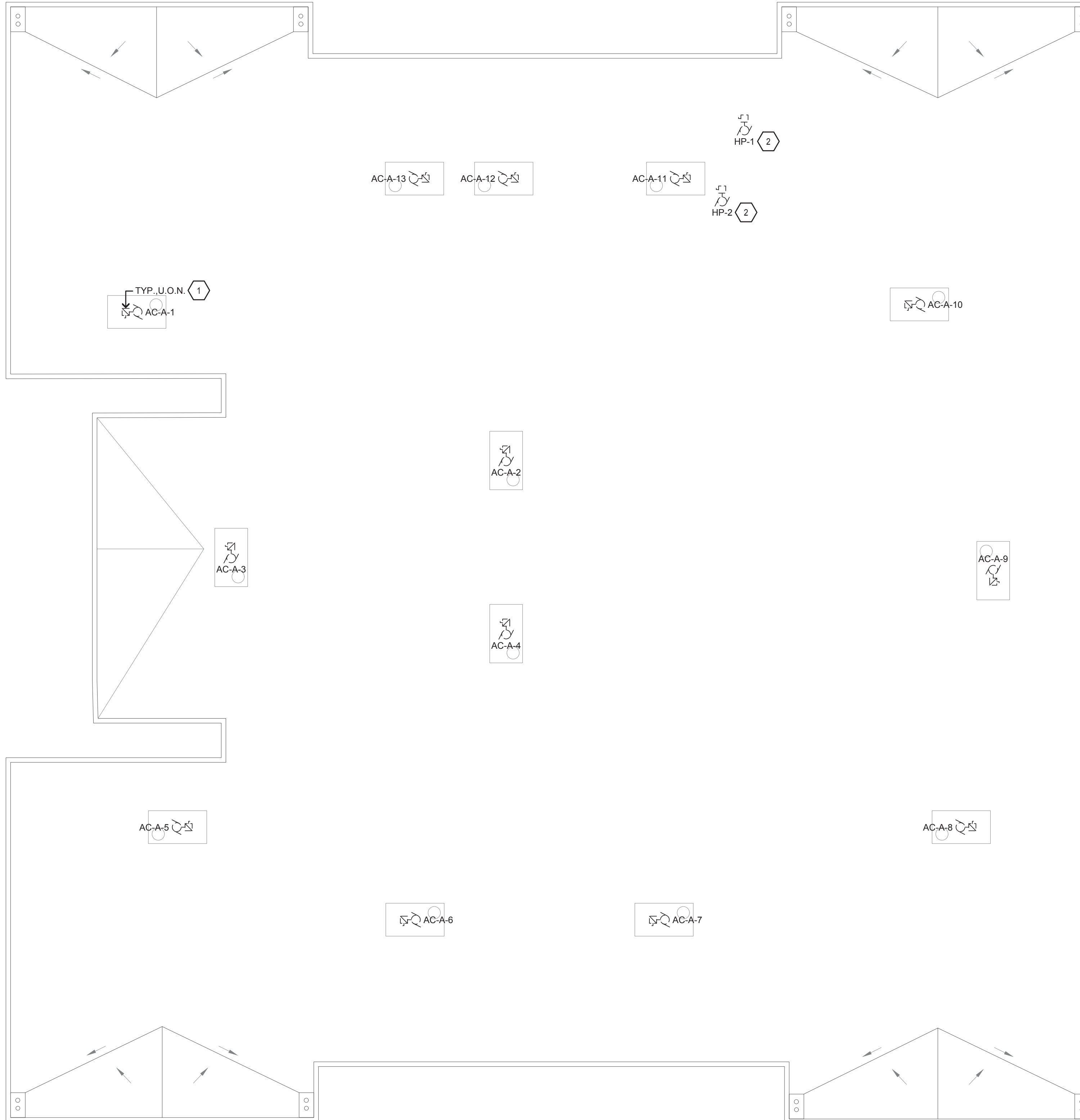
NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

E2.1





2 ELECTRICAL DEMOLITION PLAN - MULTIPURPOSE BLDG.
SCALE: 1/8"=1'-0"



1 ELECTRICAL DEMOLITION PLAN - BUILDING A
SCALE: 1/8"=1'-0"

SHEET NOTES

1. CONTRACTOR SHALL DEMOLISH EXISTING AC UNIT, ASSOCIATED FEEDER CONDUITS AND CIRCUIT BREAKER PER GENERAL DEMOLITION NOTES ON SHEET E0.1.

2. 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.

3. CONTRACTOR SHALL DISCONNECT FREEZER CONDENSER UNIT AND PRESERVE DURING DEMOLITION AND REROOFING WORK; CONTRACTOR SHALL RECONNECT UNDER NEW WORK.

GENERAL NOTE:
ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ROOFING CONTRACTOR TO PRESERVE EXISTING ELECTRICAL CONDUITS NOT PART OF HVAC POWER SUPPLIES TO REMAIN. EXISTING ELECTRICAL PANELS/TRANSFORMERS AT ROOF TO BE PRESERVED AND REMAIN DURING REROOFING WORK.

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REGISTERED PROFESSIONAL
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ELECTRICAL DEMOLITION PLANS - BUILDING A & MULTIPURPOSE BUILDING

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

REVISIONS

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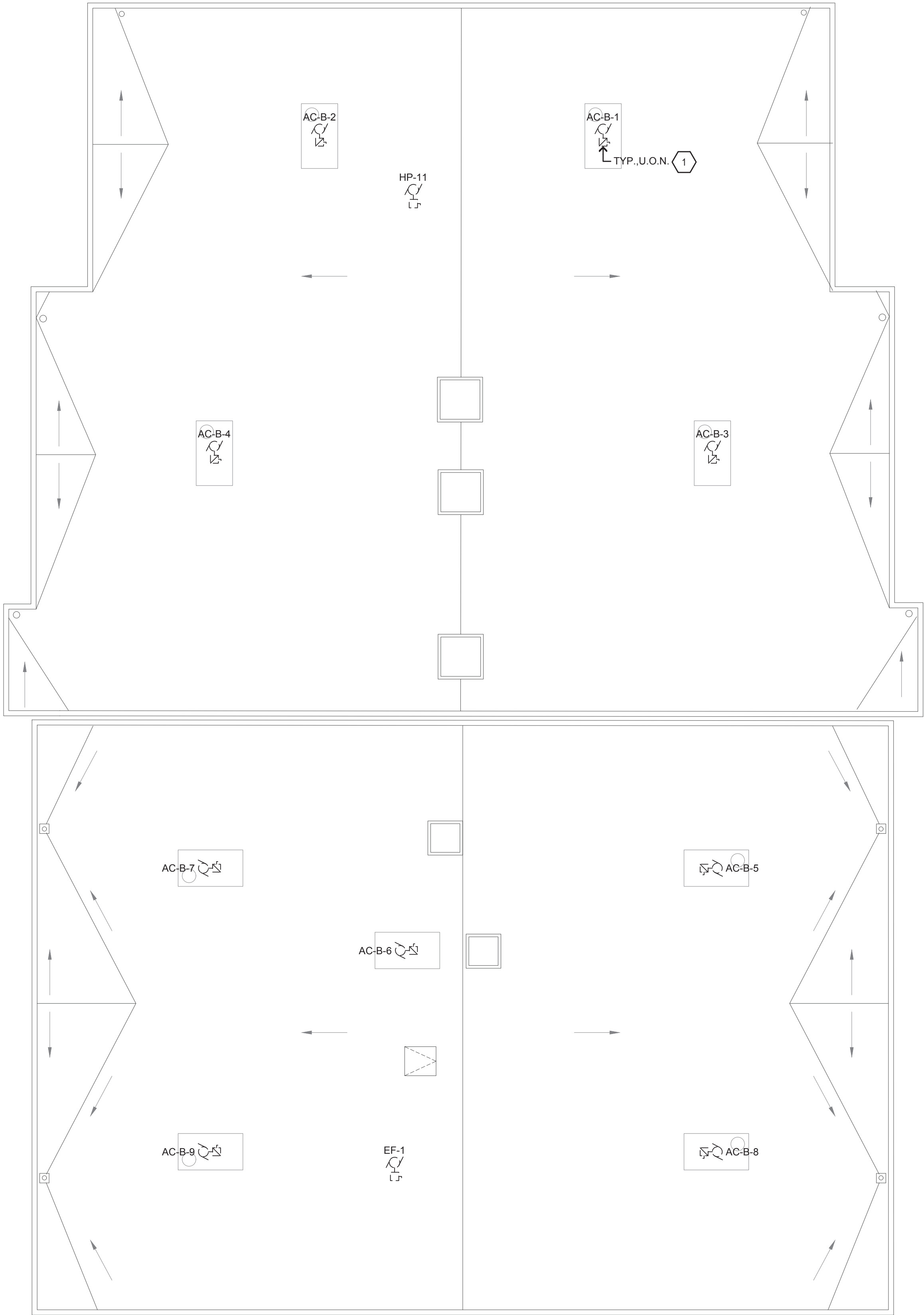
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E3.1



SHEET NOTES

- CONTRACTOR SHALL DEMOLISH EXISTING MECHANICAL UNIT, ASSOCIATED FEEDER CONDUITS AND CIRCUIT BREAKER PER GENERAL DEMOLITION NOTES ON SHEET E0.1.

GENERAL NOTE:

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

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ELECTRICAL DEMOLITION PLAN - BUILDING C

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

REVISIONS

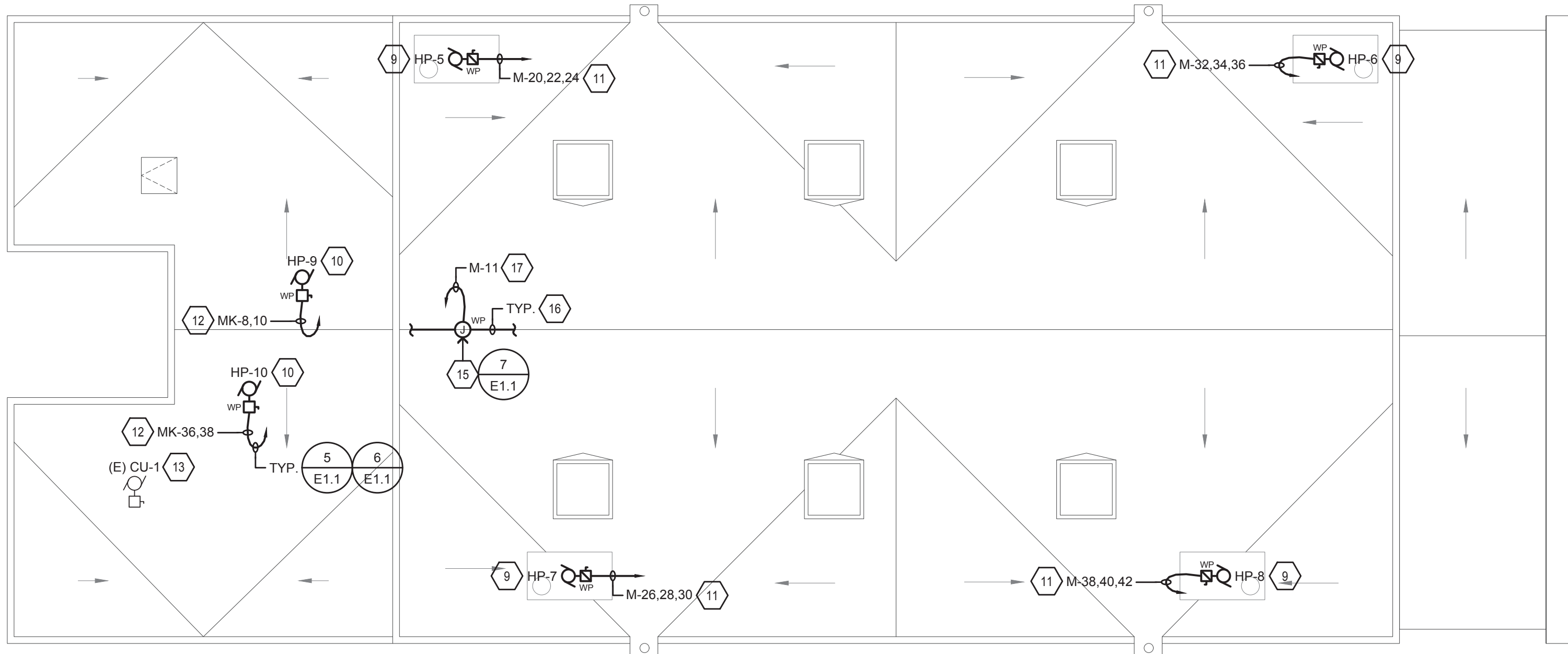
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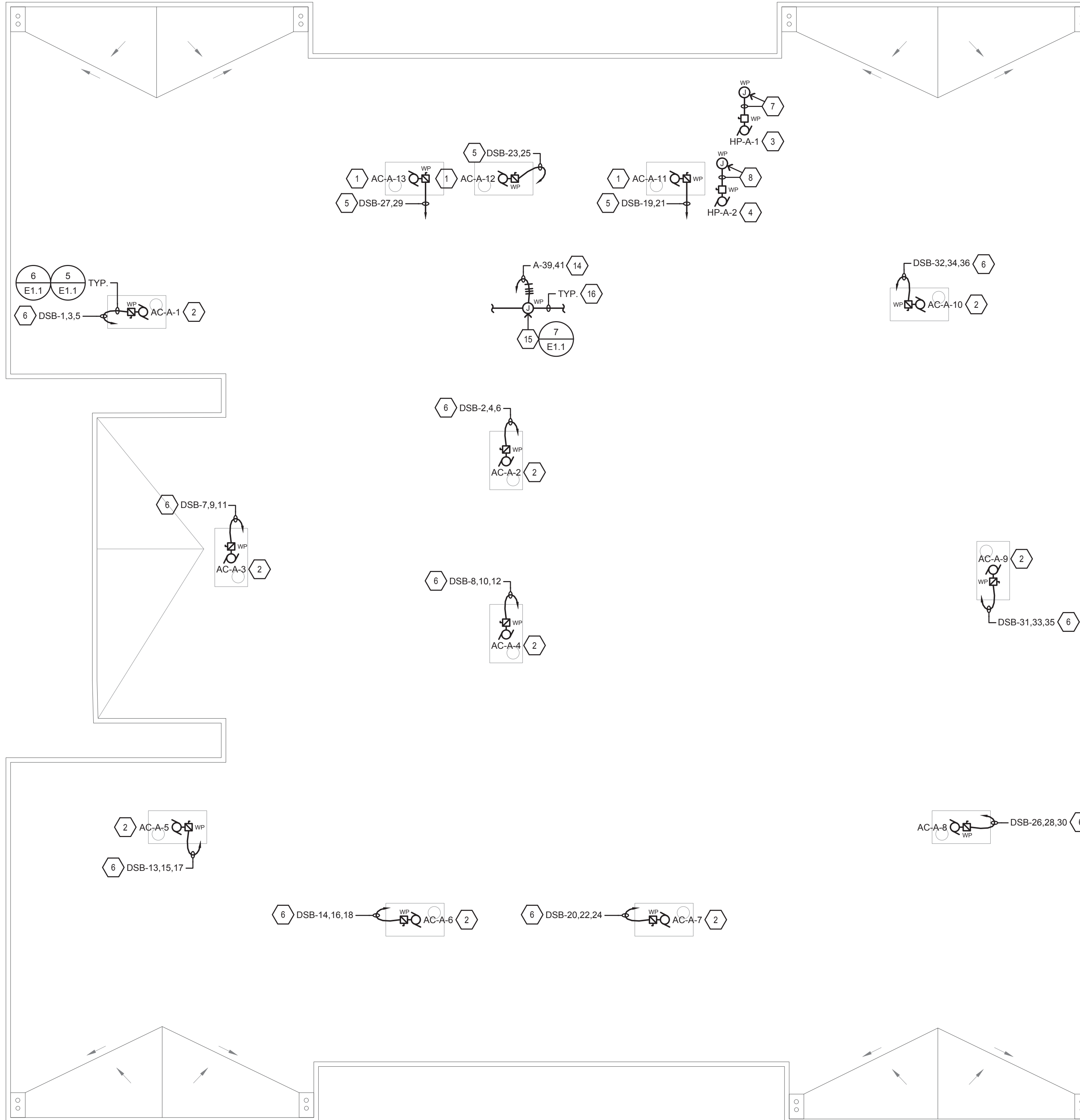
E3.2

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





2 ELECTRICAL ROOF PLAN - MULTIPURPOSE BUILDING
SCALE: 1/8"=1'-0"



1 ELECTRICAL ROOF PLAN - BUILDING A
SCALE: 1/8"=1'-0"

SHEET NOTES

1. AIR CONDITIONING UNIT; 16 MCA, 208V, 1Ø.
2. AIR CONDITIONING UNIT; 25 MCA, 208V, 3Ø.
3. SPLIT SYSTEM HEAT PUMP; 11 MCA, 208V, 1Ø.
4. SPLIT SYSTEM HEAT PUMP; 13.4 MCA, 208V, 1Ø.
5. 3/4" C., 2 #10 & 1 #10 GND. TO EXISTING PANEL AS INDICATED. AT EXISTING PANEL CONTRACTOR SHALL PROVIDE AND INSTALL 20 AMP, 3-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE; NEW BREAKER SHALL MATCH EXISTING IN RATING AND TYPE.
6. 3/4" C., 3 #8 & 1 #10 GND. TO EXISTING PANEL AS INDICATED. AT EXISTING PANEL CONTRACTOR SHALL PROVIDE AND INSTALL 35 AMP, 3-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE; NEW BREAKER SHALL MATCH EXISTING IN RATING AND TYPE.
7. CONTRACTOR SHALL INTERCEPT EXISTING FEEDER CONDUIT PRESERVED DURING DEMOLITION WORK WITH JUNCTION BOX AT ACCESSIBLE CEILING SPACE AND SPLICE AND EXTEND WITH 3/4" C., 2 #10 & 1 #10 GND. TO NEW MECHANICAL UNITS.
8. CONTRACTOR SHALL INTERCEPT EXISTING FEEDER CONDUIT PRESERVED DURING DEMOLITION WORK WITH JUNCTION BOX AT ACCESSIBLE CEILING SPACE AND SPLICE AND EXTEND WITH 3/4" C., 2 #8 & 1 #10 GND. TO NEW MECHANICAL UNITS.
9. ROOF HEAT PUMP; 43.7 MCA, 208V, 3Ø.
10. SPLIT SYSTEM HEAT PUMP; 12 MCA, 208V, 1Ø.
11. 3/4" C., 3 #4 & 1 #10 GND. TO EXISTING PANEL AS INDICATED. AT EXISTING PANEL CONTRACTOR SHALL PROVIDE AND INSTALL 50 AMP, 3-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE; NEW BREAKERS SHALL MATCH EXISTING IN RATING AND TYPE.
12. 3/4" C., 2 #10 & 1 #10 GND. TO EXISTING PANEL AS INDICATED. AT EXISTING PANEL CONTRACTOR SHALL PROVIDE AND INSTALL 20 AMP, 1-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE; NEW BREAKERS SHALL MATCH EXISTING IN RATING AND TYPE.
13. RECONNECT FREEZER CONDENSING UNIT PRESERVED DURING DEMOLITION WORK.
14. 3/4" C., 4 #10 & 1 #10 GND. TO EXISTING PANEL AS INDICATED. AT EXISTING PANEL CONTRACTOR SHALL PROVIDE AND INSTALL (2) 20 AMP, 1-POLE BREAKERS WITH ASSOCIATED MOUNTING HARDWARE; NEW BREAKERS SHALL MATCH EXISTING IN RATING AND TYPE.
15. CONTRACTOR SHALL PROVIDE AND INSTALL 8" SQ. X 4" DEEP NEMA 3R PULLCAN. CONTRACTOR SHALL INSTALL AS NECESSARY TO NOT EXCEED 270 DEGREES OF CONDUIT BENDS.
16. CONNECT ALL CONVENIENCE RECEPTACLES FURNISHED WITH NEW AC UNITS; CONTRACTOR SHALL NOT EXCEED (10) RECEPTACLES PER 120V CIRCUIT.
17. 3/4" C., 2 #10 & 1 #10 GND. TO EXISTING PANEL AS INDICATED. AT EXISTING PANEL CONTRACTOR SHALL PROVIDE AND INSTALL 20 AMP, 1-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE; NEW BREAKERS SHALL MATCH EXISTING IN RATING AND TYPE.

BRANCH CIRCUIT CONDUCTOR SIZING TABLE		
CIRCUIT AMPACITY / VOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90'	1/2" C., 2 #10 & 1 #10 GND.
20/120	91'-140'	1/2" C., 2 #8 & 1 #10 GND.
20/277	131'-205'	1/2" C., 2 #10 & 1 #10 GND.
20/277	206'-330'	1/2" 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 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.



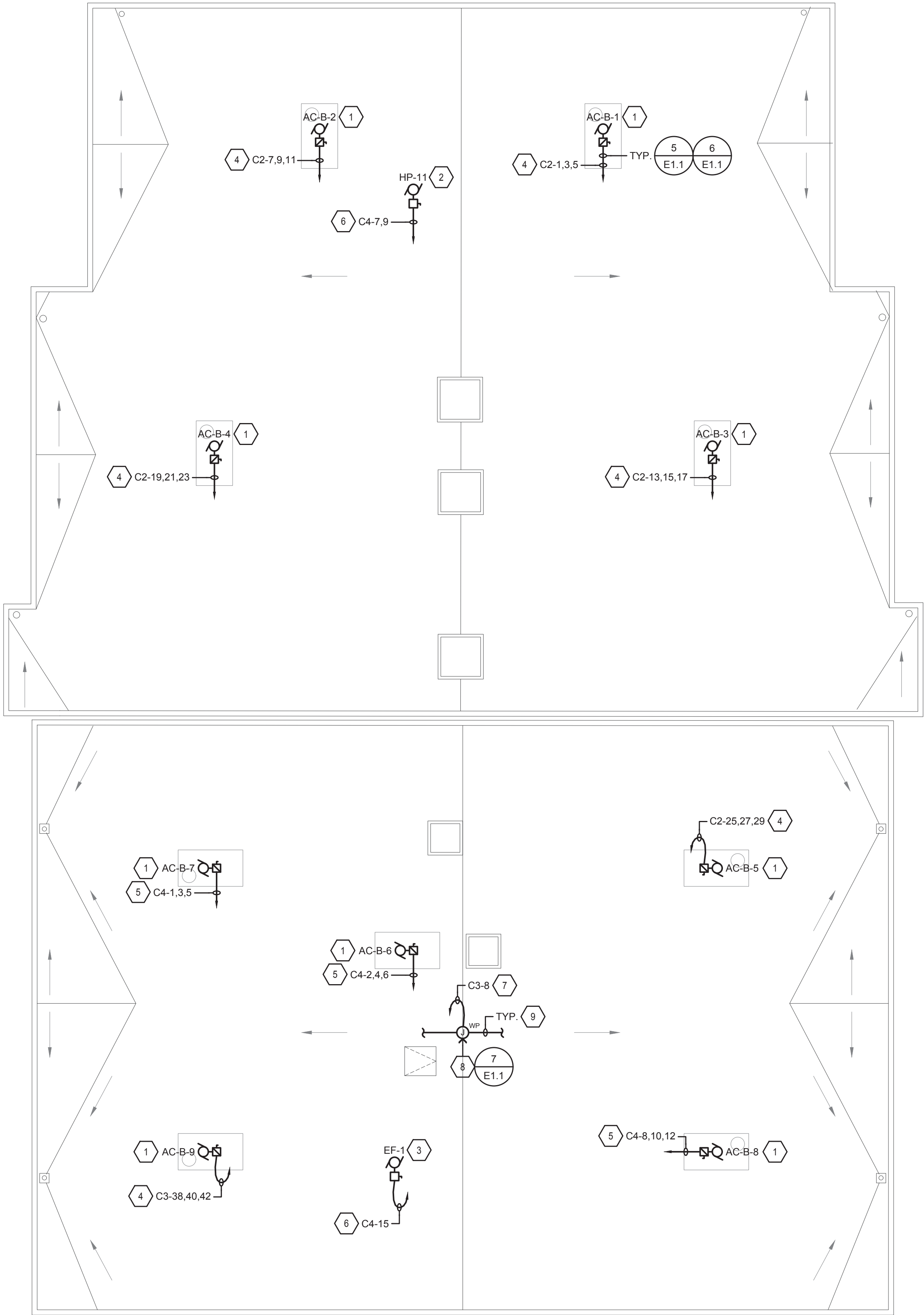
AURLIN CONSULTING ENGINEERS
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ELECTRICAL ROOF PLANS - BUILDING A & MULTIPURPOSE BUILDING
NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

NO.	ITEM	DATE
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SHEET NOTES

- AIR CONDITIONING UNIT; 25 MCA, 208V, 3Ø.
- SPLIT SYSTEM HEAT PUMP; 12 MCA, 208V, 1Ø.
- EXHAUST FAN; 1/10 HP, 120V, 1Ø. CONNECT VIA EXISTING LIGHTING CONTROLS.
- $\frac{3}{4}$ " C., 3 #8 & 1 #10 GND. TO EXISTING PANEL AS INDICATED. AT EXISTING PANEL CONTRACTOR SHALL PROVIDE AND INSTALL 35 AMP, 3-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE. NEW BREAKER SHALL MATCH EXISTING IN RATING AND TYPE.
- $\frac{3}{4}$ " C., 3 #8 & 1 #10 GND.
- $\frac{3}{4}$ " C., 2 #10 & 1 #10 GND.
- $\frac{3}{4}$ " C., 2 #10 & 1 #10 GND. TO EXISTING PANEL AS INDICATED. AT EXISTING PANEL CONTRACTOR SHALL PROVIDE AND INSTALL 20 AMP, 1-POLE BREAKERS WITH ASSOCIATED MOUNTING HARDWARE. NEW BREAKERS SHALL MATCH EXISTING IN RATING AND TYPE.
- CONTRACTOR SHALL PROVIDE AND INSTALL 8" SQ. X 4" DEEP NEMA 3R PULLCAN. CONTRACTOR SHALL INSTALL AS NECESSARY TO NOT EXCEED 270 DEGREES OF CONDUIT BENDS.
- CONNECT ALL CONVENIENCE RECEPTACLES FURNISHED WITH NEW AC UNITS. CONTRACTOR SHALL NOT EXCEED (10) RECEPTACLES PER 120V CIRCUIT.

BRANCH CIRCUIT CONDUCTOR SIZING TABLE

CIRCUIT AMPACTIVITYVOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90"	$\frac{1}{2}$ " C., 2 #10 & 1 #10 GND.
20/120	91'-140'	$\frac{1}{2}$ " C., 2 #8 & 1 #10 GND.
20/277	131'-205'	$\frac{1}{2}$ " C., 2 #10 & 1 #10 GND.
20/277	206'-330'	$\frac{1}{2}$ " 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 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 CONGEAL CONDUIT WITHIN BUILDING INTERIOR.

(DSA STAMP AREA)



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ELECTRICAL ROOF PLAN - BUILDING C

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

NO.	ITEM	DATE
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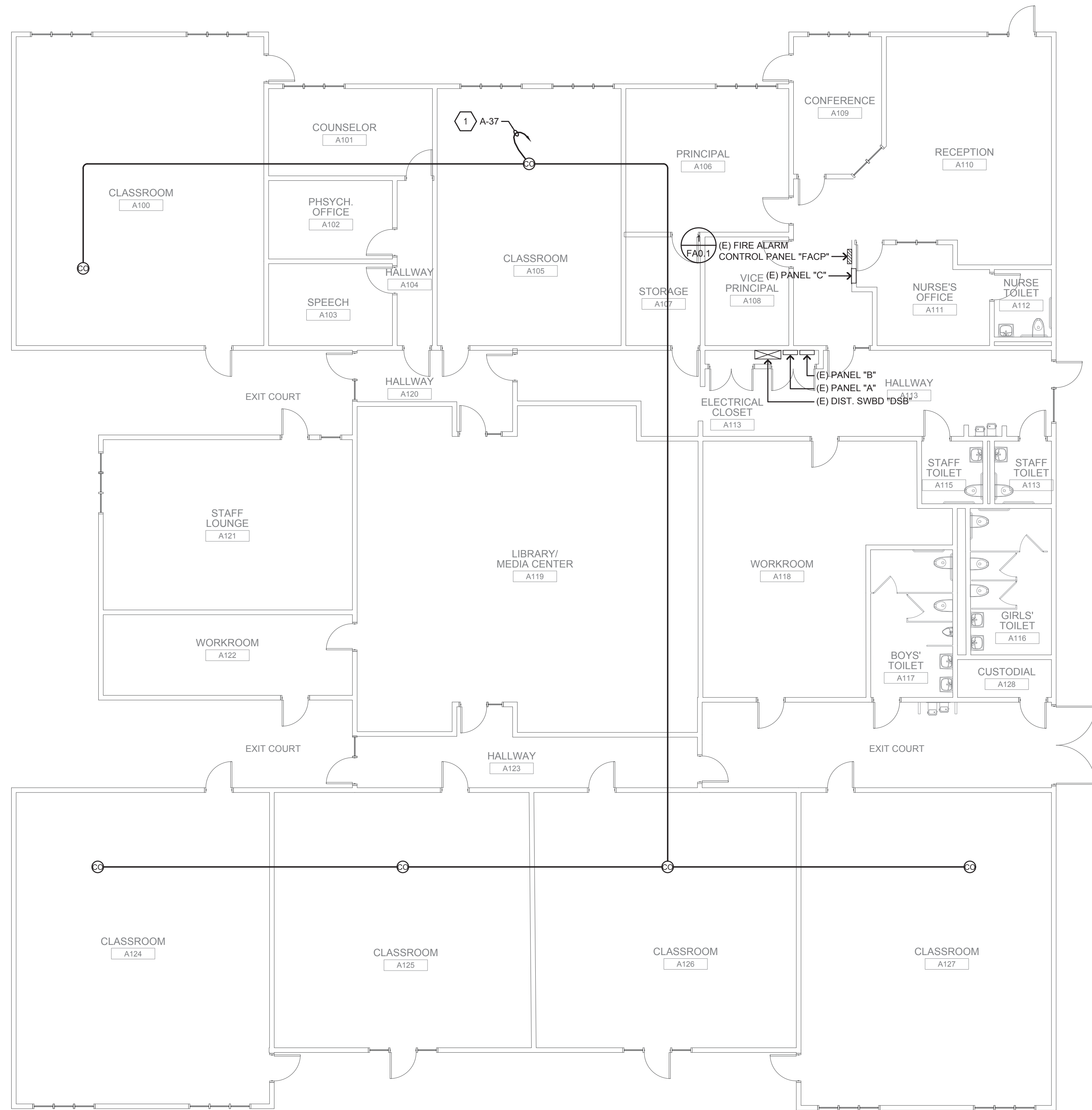
SCALE: 1/8"=1'-0"



E4.2



2 POWER PLAN - MULTIPURPOSE BUILDING
SCALE: 1/8"=1'-0"



1 ELECTRICAL ROOF PLAN - BUILDING A
SCALE: 1/8"=1'-0"

SHEET NOTES

1. 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.
2. SPLIT SYSTEM AIR HANDLER UNIT; 3.3 MCA, 208V, 1Ø.
3. 1/2" C., 2 #10 & 1 #10 GND, TO EXISTING PANEL AS INDICATED. AT EXISTING PANEL CONTRACTOR SHALL PROVIDE AND INSTALL 20 AMP, 2-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE, NEW BREAKER SHALL MATCH EXISTING IN RATING AND TYPE.

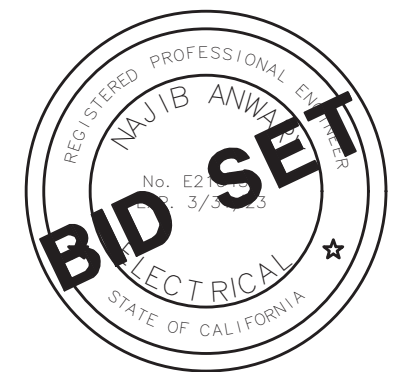
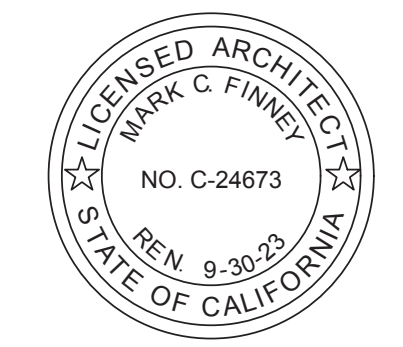
BRANCH CIRCUIT CONDUCTOR SIZING TABLE

CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90'	1/2" C., 2 #10 & 1 #10 GND.
20/120	91'-140'	1/2" C., 2 #8 & 1 #10 GND.
20/277	131'-205'	1/2" C., 2 #10 & 1 #10 GND.
20/277	206'-330'	1/2" 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 SPICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY.

GENERAL NOTE:
SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILING 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.

(DSA STAMP AREA)



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POWER PLANS - BUILDING A & MULTIPURPOSE BUILDING

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DATE: 11/05/2021

E4.3

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.

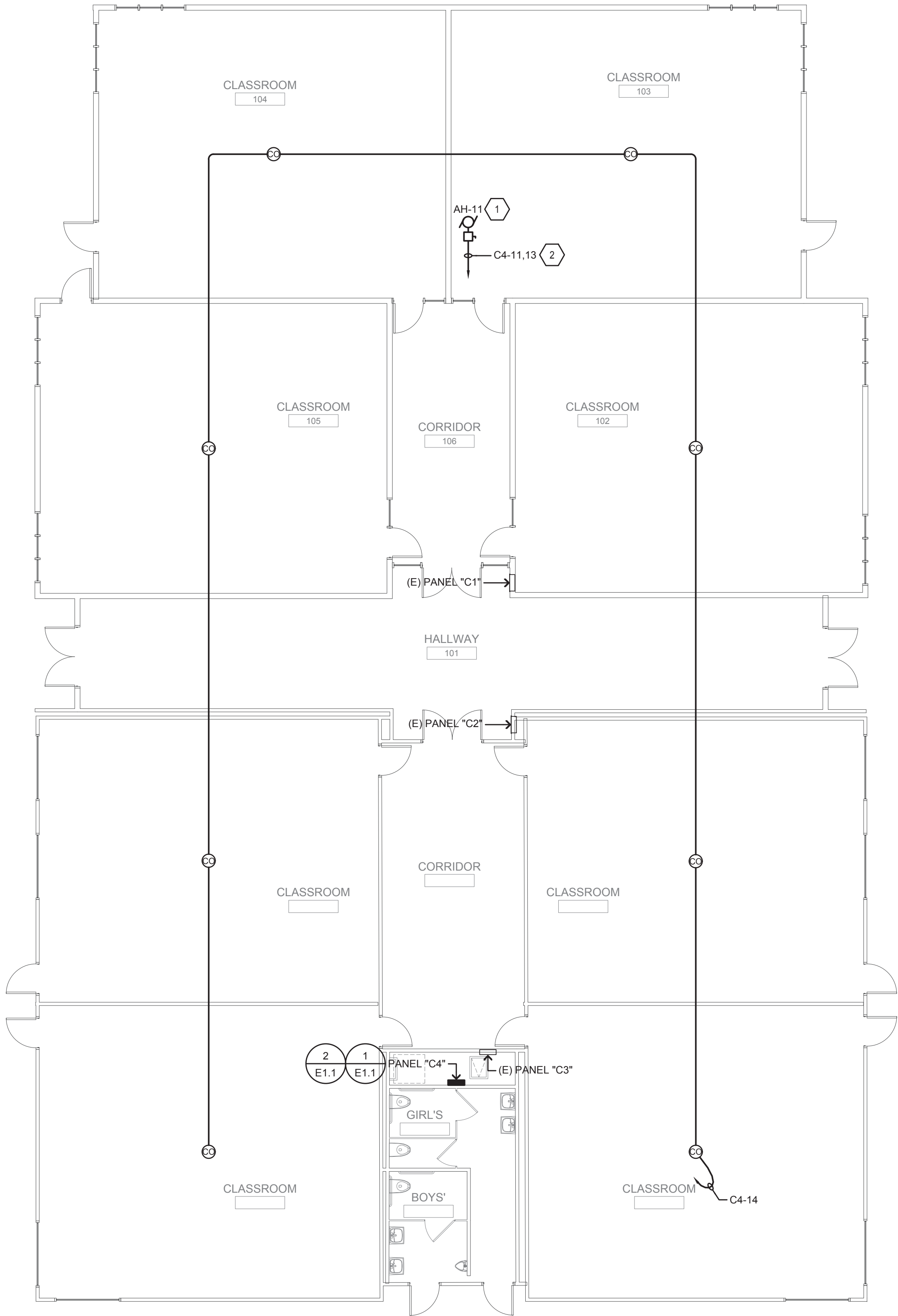
NOTE:
CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS PER THE TABLE ABOVE AS DETERMINED BY THE CIRCUIT CONDUCTOR LENGTH. U.O.N. CONTRACTOR SHALL SPLICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY.

GENERAL NOTE:

SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS. CUT AND 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

- SPLIT SYSTEM AIR HANDLER UNIT; 3.3 MCA, 208V, 1Ø.
- ½"C., 2 #10 & 1 #10 GND.



8' 0' 2' 4' 6' 8'
SCALE: 1/8"=1'-0"



POWER PLAN - BUILDING C

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

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E4.4

FIRE ALARM EQUIPMENT LIST			
SYMBOL	DESCRIPTION AND MODEL NUMBER	MFGR'S PART No.	CSFM LISTING
[FACP]	(E) ADDRESSABLE FIRE ALARM CONTROL - PANEL, NOTIFIER NF53030 SERIES.	NF53030	7165-0028-0141
[M]	ADDRESSABLE MONITOR MODULE, NOTIFIER FMM SERIES.	FMM-1	7300-0028-0219
[CO]	CARBON MONOXIDE DETECTOR WITH CONTACT RELAY, GENTEX CO1209.	CO1209	5276-0659-0143

BATTERY CALCULATIONS			
EXISTING FIRE ALARM CONTROL PANEL "FACP"			
QTY	PRODUCT ID	DESCRIPTION	STANDBY
			EACH TOTAL EACH TOTAL
1	NF53030	(E) PRIMARY INPUT POWER UNIT	0.1180 0.1180 0.1020 0.1020
1	CPU-2030	(E) PRIMARY DISPLAY	0.1200 0.1200 0.1200 0.1200
1	SLC	(E) SLC DEVICE ACTIVATION CURRENT	0.2000 0.2000 0.2000 0.2000
1	LCD-80	(E) LIQUID CRYSTAL DISPLAY MODULE	0.0500 0.0500 0.1000 0.1000
		PANEL STANDBY CURRENT	0.4880
		PANEL ALARM CURRENT	0.5820
FIELD DEVICES			
QTY	PRODUCT ID	DESCRIPTION	STANDBY
			EACH TOTAL EACH TOTAL
34	FSM-751	(E) PHOTO-ELECTRIC SMOKE DETECTOR	0.0004 0.0132 0.0004 0.0132
11	EST-751	(E) CONVENTIONAL HEAT DETECTOR	0.0003 0.0033 0.0003 0.0033
36	FSM-1	(E) MONITOR MODULE	0.0008 0.0270 0.0008 0.0270
1	FSM-1	(E) CONTROL MODULE	0.0004 0.0004 0.0001 0.0001
1	NBS-12X	(E) MANUAL PULL STATION	0.0004 0.0004 0.0004 0.0004
14	FMM-1	ADDRESSABLE MONITOR MODULE	0.0004 0.0001 0.0004 0.0001
		DESCRIPTION	STANDBY ALARM
		CONTROL PANEL	0.4880 0.5820
		FIELD DEVICES	0.4480 0.0331
		TOTAL STANDBY CURRENT	0.9360
		2.5A HOUR STANDBY	12.8773
		TOTAL ALARM CURRENT	0.6331
		15 MINUTES OF ALARM @ 2.5	0.1583
		TOTAL BATTERY REQUIREMENT	13.0357
		SAFETY MARGIN (20%)	15.6428
		BATTERY SUPPLIED	(2) 120 TWH

- ### FIRE ALARM GENERAL NOTES
1. WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760.
 2. WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-310-8, T24/CEC (I.E. THHW OR EQUAL).
 3. UNDER GROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRES APPROVED FOR WET LOCATION.
 4. ALL CONDUCTORS SHALL BE ROUTED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS. MINIMUM CONDUIT SIZE SHALL BE 3/4".
 5. THE CONDUIT AND WIRE SHOWN ON THESE PLANS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS. "AS-BUILT" PLANS SHALL BE MAINTAINED AND BE PROVIDED AS REQUIRED BY THE PROJECT INSPECTOR OF RECORD.
 6. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF THROUGH PENETRATION FIRE-STOP SYSTEMS FOR ALL PIPE/CABLE/CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS REQUIRING PROTECTED OPENINGS.
 7. ALL DEVICES SHALL BE "CSFM" LISTED.
 8. EXTERIOR DEVICES SHALL BE LISTED FOR EXTERIOR USE BY "CSFM."
 9. AUDIBLE ALARM PRODUCED BY "FACP" SHALL SOUND THE CALIFORNIA UNIFORM SIGNAL IN TEMPORAL MODE.
 10. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15DBA ABOVE THE AVERAGE SOUND LEVEL.
 11. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC SHALL HAVE A SOUND LEVEL OF NOT LESS THAN 75DBA AT 10 FEET OR MORE THAN 110DBA AT THE MINIMUM HEARING DISTANCES FROM THE AUDIBLE APPLIANCE.
 12. WHERE VISUAL DEVICES ARE REQUIRED, VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE.
 13. APPROVED BY THE "DIVISION OF THE STATE ARCHITECT/OFFICE OF REGULATION SERVICES." CONTRACTOR SHALL PROVIDE COPIES OF APPROVED PLANS TO THE PROJECT INSPECTOR OF RECORD PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING TO ENGINEER PRIOR TO PURCHASE FOR REVIEW. THE FIRE PROTECTION SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED TO AND RECEIVED BY THE ENGINEER OF RECORD.
 14. FINAL ALARM TEST SHALL BE WITNESSED BY THE DSA INSPECTOR OF RECORD (IOR). BOTH THE DSA INSPECTOR OF RECORD (IOR) AND THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING BY THE FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST.
 15. POWER SERVICE SHALL BE ON A DEDICATED, 120V BRANCH CIRCUIT, WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL."
 16. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUIS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.

SYMBOLS & ABBREVIATIONS

SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING.
- CONDUIT - IN OR BELOW FLOOR: 3/4" C MIN.
- CONDUIT CONTINUATION.
- 201 ROOM NUMBER.
- 2 SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET.
- 2 E1 DETAIL OR SECTION DESIGNATION.

ABBREVIATIONS

ARCH.	ARCHITECT	FSD	FIRE SMOKE DAMPER
AWG	AMERICAN WIRE GAUGE	IDC	INITIATING DEVICE CIRCUITS
BKR	BREAKER	(N)	NEW
C	CONDUIT	NAC	NOTIFICATION APPLIANCE CIRCUITS
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NO	NUMBER
CLG	CEILING	SLC	SIGNALING LINE CIRCUITS
(E)	EXISTING	TYP	TYPICAL
EOL	END OF LINE	UON	UNLESS OTHERWISE NOTED
FA	FIRE ALARM	WP	WEATHERPROOF
FACP	FIRE ALARM CONTROL PANEL		
FBO	FURNISHED BY OTHERS		

TYPICAL ZONE NOMENCLATURE

"S2" DENOTES SIGNAL CIRCUIT #2
"75CD" DENOTES CANDELA RATING
"4" DENOTES DEVICE #4
"M" DENOTES MODULE DEVICE; "D" DENOTES DETECTOR DEVICE
"1" DENOTES LOOP#
"5" DENOTES DEVICE #5
CROSSHATCH INDICATES NUMBER OF WIRES REQUIRED. SUBSCRIPT LETTER INDICATES TYPE OF CIRCUIT. SEE GENERAL NOTES THIS SHEET FOR NUMBER & TYPE OF WIRES AND CIRCUIT TYPE.

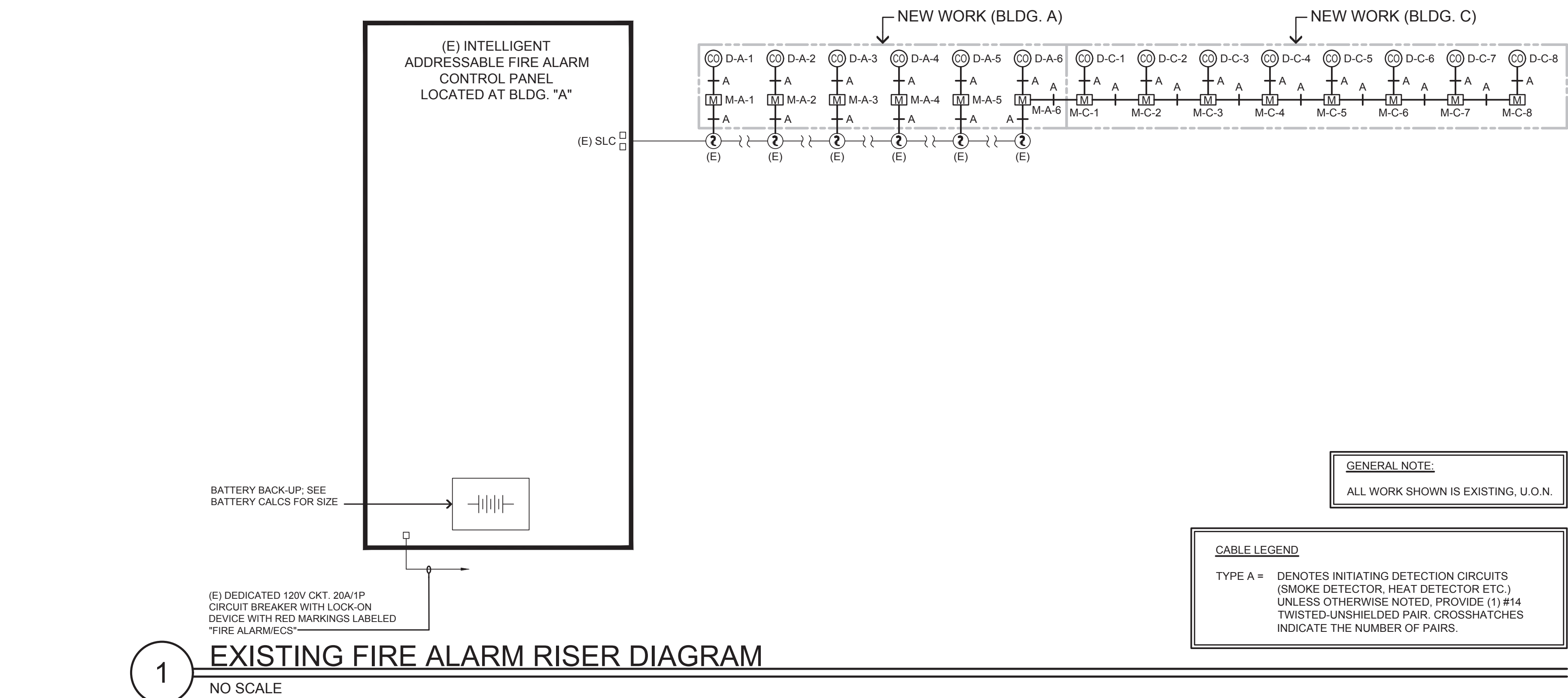
PROJECT DESCRIPTION

SCOPE OF WORK:
EXTENSION OF INITIATION DETECTION CIRCUIT FOR ADDITION OF CARBON MONOXIDE DEVICES IN EXISTING CLASSROOMS IN EXISTING BUILDINGS "A" & "C".

SYSTEM DESCRIPTION:
SLC = CLASS B
IDC = CLASS B
NAC = CLASS B

FIRE ALARM SYSTEM DESIGN BY:
NAJIB ANWARY PE.

FIRE ALARM SYSTEM OPERATIONAL MATRIX											
CAUSE	EFFECT	ALARM				TROUBLE				SUPERVISORY	
		ALARM INITIATION	ALARM ANNUNCIATOR	ALARM REPORTING	ALARM AT OFF SITE	TROUBLE INITIATION	TROUBLE ANNUNCIATOR	TROUBLE REPORTING	TROUBLE AT OFF SITE	FOR SHUT DOWN	MISC.
CARBON MONOXIDE	•	•	•	•	•	•	•	•	•	•	•
SIGNAL SILENCE											
SYSTEM RESET											
AC POWER FAILURE											
TROUBLE (OPEN, SHORTS, GROUND)											
ON INITIATION OR SIGNAL CIRCUITS											



(DSA STAMP AREA)

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MARK C. FINNEY
NO. C-24673
9-30-2018
STATE OF CALIFORNIA

BID SET
NAJIB ANWARY PE
ELECTRICAL
STATE OF CALIFORNIA

AURUM CONSULTING ENGINEERS
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FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, BATTERY CALCULATION, OPERATIONAL MATRIX, NOTES & FIRE ALARM RISER DIAGRAM

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

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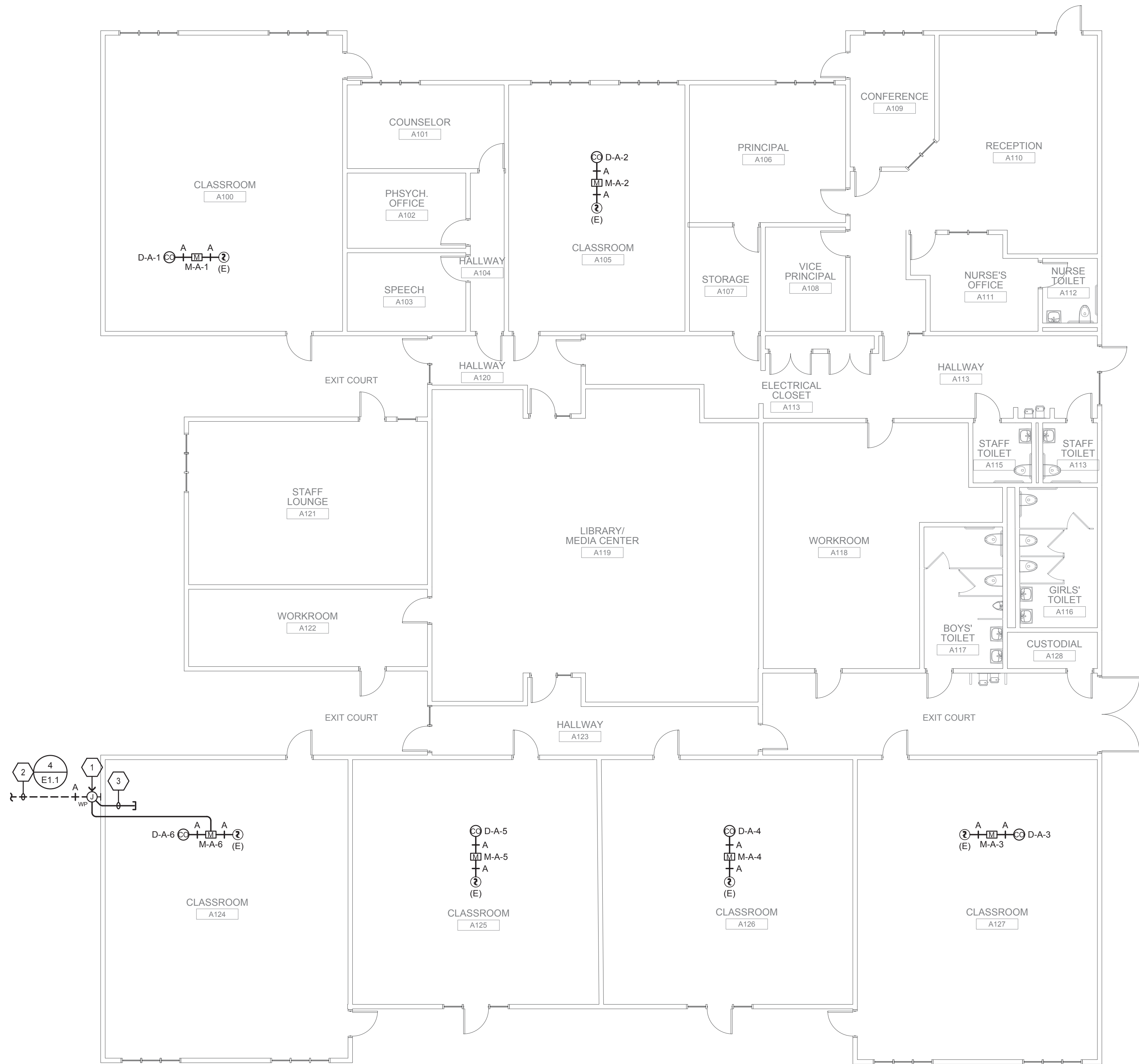
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CABLE LEGEND

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.

SHEET NOTES

- PROVIDE AND INSTALL 18" SQ. X 6" DEEP NEMA 3R PULLCAN.
- CONTRACTOR SHALL PROVIDE AND INSTALL (1) 2" C. FOR FIRE ALARM CABLES & (1) 2" C.O. FOR FUTURE USE; SEE SHEET E2.1 FOR CONTINUATION.
- STUB (2) 2" C. INTO ACCESSIBLE CEILING SPACE AND TAG FOR FIRE ALARM.



8" 0' 2' 4' 6' 8'

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

NORTH

(DSA STAMP AREA)

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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24873
EXPIRATION DATE: 9-30-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ELECTRICAL ENGINEER
MARK C. FINNEY
NO. 10010
EXPIRATION DATE: 12-31-23
STATE OF CALIFORNIA

BID SET

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FIRE ALARM PLAN - BUILDING A

NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT

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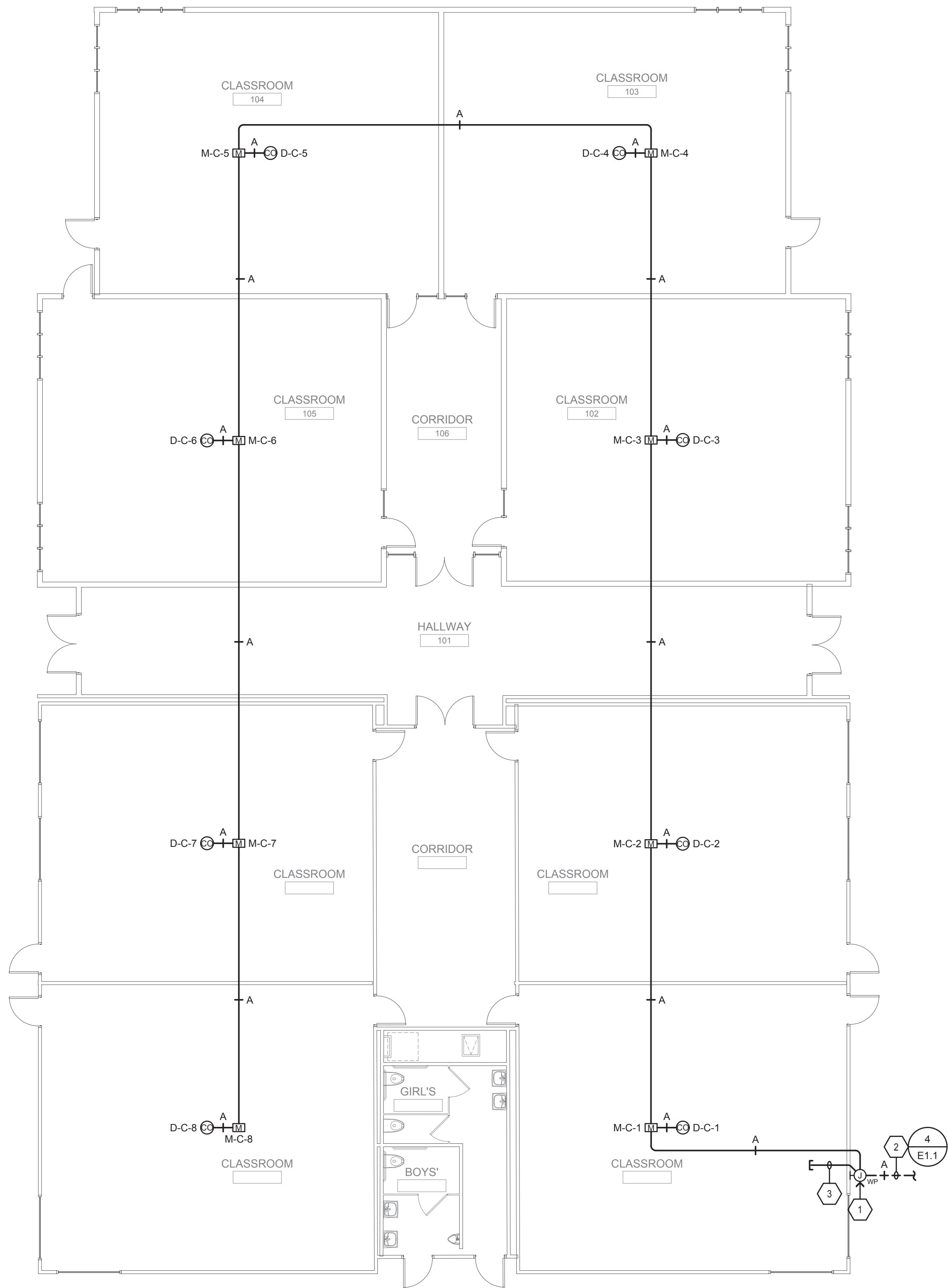
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CABLE LEGEND

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.

SHEET NOTES

1. PROVIDE AND INSTALL 12" SQ. X 4" DEEP NEMA 3R PULLCAN.
2. CONTRACTOR SHALL PROVIDE AND INSTALL 2" C. FOR FIRE ALARM CABLES; SEE SHEET E2.1 FOR CONTINUATION.
3. STUB 2" C. INTO ACCESSIBLE CEILING SPACE AND TAG FOR FIRE ALARM.



8" 0' 2' 4' 6' 8'
SCALE: 1/8"=1'-0"



FIRE ALARM PLAN - BUILDING C

**NEW HVAC AND REROOFING
VINTAGE HILLS ELEMENTARY SCHOOL
1125 CONCORD STREET, PLEASANTON, CA 94566
PLEASANTON UNION SCHOOL DISTRICT**

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FA4.2

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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24873
EXPIRATION DATE: 9-30-23
STATE OF CALIFORNIA

BID SET
ARCHITECTURAL
ELECTRICAL
STATE OF CALIFORNIA

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