LYDIKSEN ELEMENTARY SCHOOL REROOFING & HVAC REPLACEMENT

7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588

PLEASANTON UNIFIED SCHOOL DISTRICT

GENERAL NOTES

PRE-BID SITE VISIT

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

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 THERE ABOUT) POSSIBILITY CONTAIN ASBESTOS IN SOME EXISTING CONSTRUCTION MATERIALS, AND WILL LIKELY BE ENCOUNTERED DURING ALTERATIONS OR REMODELING.

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

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

ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.

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

CONSTRUCTION SCHEDULING

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

INTERIOR FINISHES

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

PIPES, DUCTS AND CONDUIT - SUPPORT AND BRACING

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

DRILLED-IN EXPANSION ANCHORS

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

TITLE 24 COMPLIANCE

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

GENERAL NOTES, cont.

ABBREVIATIONS

(REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL ABBREVIATIONS)

A.F.F.	ABOVE FINISHED FLOOR
A.P.	ACCESS PANEL
ACT	ACOUSTIC TILE
ADJ.	ADJUSTABLE
ALUM.	ALUMINUM
A.B.	ANCHOR BOLT
APPROX.	APPROXIMATELY
ARCH.	ARCHITECT
AC	ASPHALTIC CONCRETE
@	AT
B.M.	BENCH MARK
BLKG.	BLOCKING
BD.	BOARD
B.W.	BOTH WAYS
BOT.	BOTTOM
BLDG.	BUILDING
B.U.R.	BUILT-UP ROOFING
C.B.	CATCH BASIN
CLG.	CEILING
CEM.	CEMENT
C.C or O.C.	CENTER TO CENTER
	CENTERLINE
CER. TILE	CERAMIC TILE
C.O.	CLEANOUT
C.O.T.G.	CLEANOUT TO GRADE
CLR.	CLEAR
C.A.H.R.	CLEAR ALL HEART
	REDWOOD
C.W.	COLD WATER
COL.	COLUMN
COM.	COMMON
CONC.	CONCRETE
CONST.	CONSTRUCTION
C.H.	CONSTRUCTION HEART
C.J.	CONSTRUCTION JOINT
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CTR.	COUNTER
CTSK.	COUNTER SUNK
DET.	DETAIL
DIA. or Ø	DIAMETER
DIM.	DIMENSION
D.A.	DISABLED ACCESS
DR.	DOOR
D.S.	DOWNSPOUT
DWG.	DRAWING
D.F.	DRINKING FOUNTAIN
	and/or DOUGLAS FIR
EA.	EACH
E.W.	EACH WAY
ELEC.	ELECTRIC or ELECTRICAL
EL. or	
ELEV.	ELEVATION
ENCL.	ENCLOSE and/or ENCLOSURE
EQ.	EQUAL
EQUIP.	EQUIPMENT
(E)	EXISTING
EX.	EXPANSION
E.J.	EXPANSION JOINT
EXP.	EXPOSED
EXT.	EXTERIOR
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.F.	FACE OF FINISH
FIN.	FINISH
F.F.	FINISHED FLOOR
F.S.	FINISH SLAB
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.	FIRE HYDRANT
F.H.M.S.	FLAT HEAD METAL SCREW
F.H.W.S.	FLAT HEAD WOOD SCREW
FL. or FLR.	FLOOR
F.D.	FLOOR DRAIN
FTG.	FOOTING
FND.	FOUNDATION
GALV.	GALVANIZED
G.I.	GALVANIZED IRON
GA.	GAUGE
GL.	GLASS
GLU-LAM	GLUE-LAMINATED
GRD.	GRADE
GYP. BD.	GYPSUM BOARD
HDW.	HARDWARE
HT.	HEIGHT
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.B.	HOSE BIBB
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
JT	JOINT
J.H.	JOIST HANGER
K.D.	KILN DRIED
LAM.	LAMINATE
LAV.	LAVATORY
M.B.	MACHINE BOLT
M.S.	MACHINE SCREW
M.H.	MANHOLE
MFG.	MANUFACTURER
M.B.	MARKER BOARD
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
(N)	NEW
NOM.	NOMINAL
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO. or #	NUMBER
OCC.	OCCUPANT(CY)
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
O.H.	OPPOSITE HAND
O.F.O.S.	OUTSIDE FACE OF STUD
O.H.W.S.	OVAL HEAD WOOD SCREW
O.D.	OVERFLOW DRAIN and/or
	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED and
	CONTRACTOR INSTALLED
PR.	PAIR
PART.	PARTITION
PL.	PLATE
d	PENNY (NAILS)
PLAS.	PLASTER
PLYWD.	PLYWOOD
P.V.C.	POLY VINYL CHLORIDE
P.T.	PRESSURE TREATED
P.L.	PROPERTY LINE
R. or RAD.	RADIUS
R.W.L.	RAIN WATER LEADER
RWD./R.W.	REDWOOD
REINF.	REINFORCING
REQ'D	REQUIRED
R.A.G.	RETURN AIR GRILLE
R.E.	RIM ELEVATION
R.D.	ROOF DRAIN
RM.	ROOM
R.O.	ROUGH OPENING
RND.	ROUND
R.H.M.S.	ROUND HEAD METAL SCREW
R.H.W.S.	ROUND HEAD WOOD SCREW
SSD.	SEE STRUCTURAL DRAWINGS
S.T.S.M.S.	SELF TAPPING SHEET
	METAL SCREW
SHEATH.	SHEATHING
S.M.	SHEET METAL
S.M.S.	SHEET METAL SCREW
S.O.V.	SHUT OFF VALVE
SIM.	SIMILAR
S.C.	SOLID CORE
SPEC.	SPECIFICATION
SQ.	SQUARE
S.F.	SQUARE FEET
STAG.	STAGGERED
STD.	STANDARD
S.S.	STAINLESS STEEL
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
S.A.G.	SUPPLY AIR GRILLE
THRES.	THRESHOLD
T&G	TONGUE & GROOVE
T.J.	TOOLED JOINT
T.O.B.	TOP OF BEAM
T.O.C.	TOP OF CURB or CONCRETE
T.O.S.	TOP OF STEEL or SHEATHING
T.O.W.	TOP OF WALK
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
U.O.S.	UNLESS OTHERWISE SHOWN
V.T.R.	VENT THROUGH ROOF
VERT.	VERTICAL
V.G.	VERTICAL GRAIN
V.I.F.	VERIFY IN FIELD
V.C.T.	VINYL COMPOSITION TILE
V.W.C.	VINYL WALL COVERING
V.O.I.P.	VOICE OVER INTERNET PROTOCOL
W.C.	WATER CLOSET
W.H.	WATER HEATER
WP.	WATERPROOF
W.R.	WATER RESISTANT
W.W.M.	WELDED WIRE MESH
W.D.	WINDOW DIMENSION
W/	WITH
W/O	WITHOUT
WD.	WOOD

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 ENERGY CODE (CENC), PART 6, TITLE 24, C.C.R.	
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.	
2016	ASME A17.1 (W/A17.1a/CSA B44a-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS	
2010	ADA STANDARDS FOR ACCESSIBLE DESIGN (28 CFR PART 35 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 SYSTEMS	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 268	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 (W/ REVISIONS THROUGH DEC. 2014)	2003 EDITION
UL 1971	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 — 1 / A8.1 — SECTION IDENTIFICATION; SHEET WHERE SECTION IS DRAWN
- DETAIL — 4 / A9.1 — DETAIL IDENTIFICATION; SHEET WHERE DETAIL IS DRAWN
- INTERIOR ELEVATION — 1 / A7.1 — INDICATES ELEVATION SHOWN; SHEET WHERE ELEVATION IS DRAWN
- ROOM IDENTIFICATION — CLASSROOM / 102 — ROOM NAME; ROOM NUMBER
- SPECIFIC NOTE — 3
- DOOR DESIGNATION — 102A
- WINDOW DESIGNATION — A
- ADDENDUM REVISION — 1 — CLOUD AROUND REVISION
- CCD REVISION — 1 / CCD — CLOUD AROUND REVISION
- FINISH NUMBER — 127 — SEE SPECS AND I.E. DWGS.
- EQUIPMENT LETTER — A — SEE EQUIPMENT SCHEDULE
- CEILING HEIGHT — +8'-0"
- WALL TYPE — 1
- MATCH LINE
- ELEV. HEIGHT — +8'-0"
- F.O.S., U.O.N.
- FACE OF FINISH

PROJECT SUMMARY

ROOF REPAIR/REPLACEMENT AND HVAC REPLACEMENT, MULTIPURPOSE BUILDING J.

DESIGN TEAM

ARCHITECT
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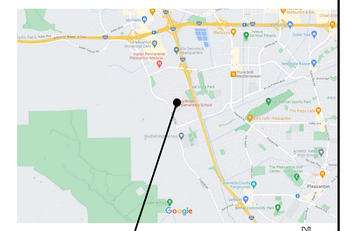
MECHANICAL AND PLUMBING ENGINEER
CYPRESS ENGINEERING GROUP
8 HARRIS COURT, SUITE A8
MONTEREY, CALIFORNIA 93940
(831) 218-1802

ELECTRICAL AND FIRE ALARM ENGINEER
AURUM CONSULTING ENGINEERS
1798 TECHNOLOGY DRIVE, SUITE 242
SAN JOSE, CA 95110
(408) 564-7925

DRAWING INDEX

SHEET TOTAL = 14

VICINITY MAP



PROJECT LOCATION

N

(DSA STAMP AREA)

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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN. 9-30-23
STATE OF CALIFORNIA

TITLE SHEET

REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588
PLEASANTON UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
1		

DRAWN BY:	KNJ
CHECKED BY:	MB
SFA JOB NO:	DATE:
20085	11/16/2021

T1

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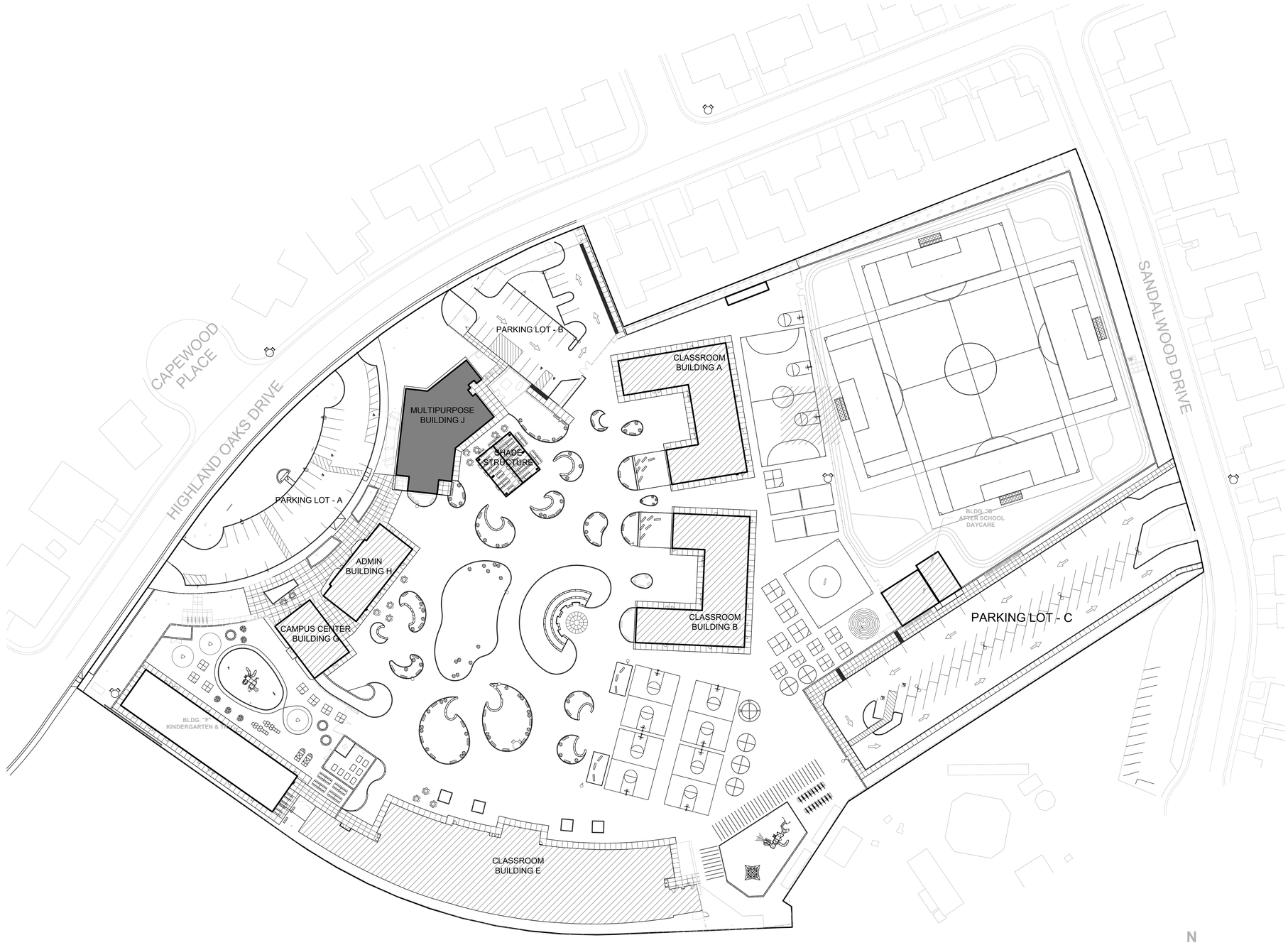

GENERAL NOTES

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

GRAPHIC KEY

- EXISTING PROPERTY LINE
- ROOF OVERHANG
- CHAINLINK FENCE
- WOOD FENCE
- DECORATIVE FENCE
- EXISTING BUILDING
- SCOPE OF WORK

1 SITE PLAN

1" = 40'-0"

0 10' 20' 40' 80' 120'

TRUE NORTH

(DSA STAMP AREA)

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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN. 9-30-23
STATE OF CALIFORNIA

SITE PLAN

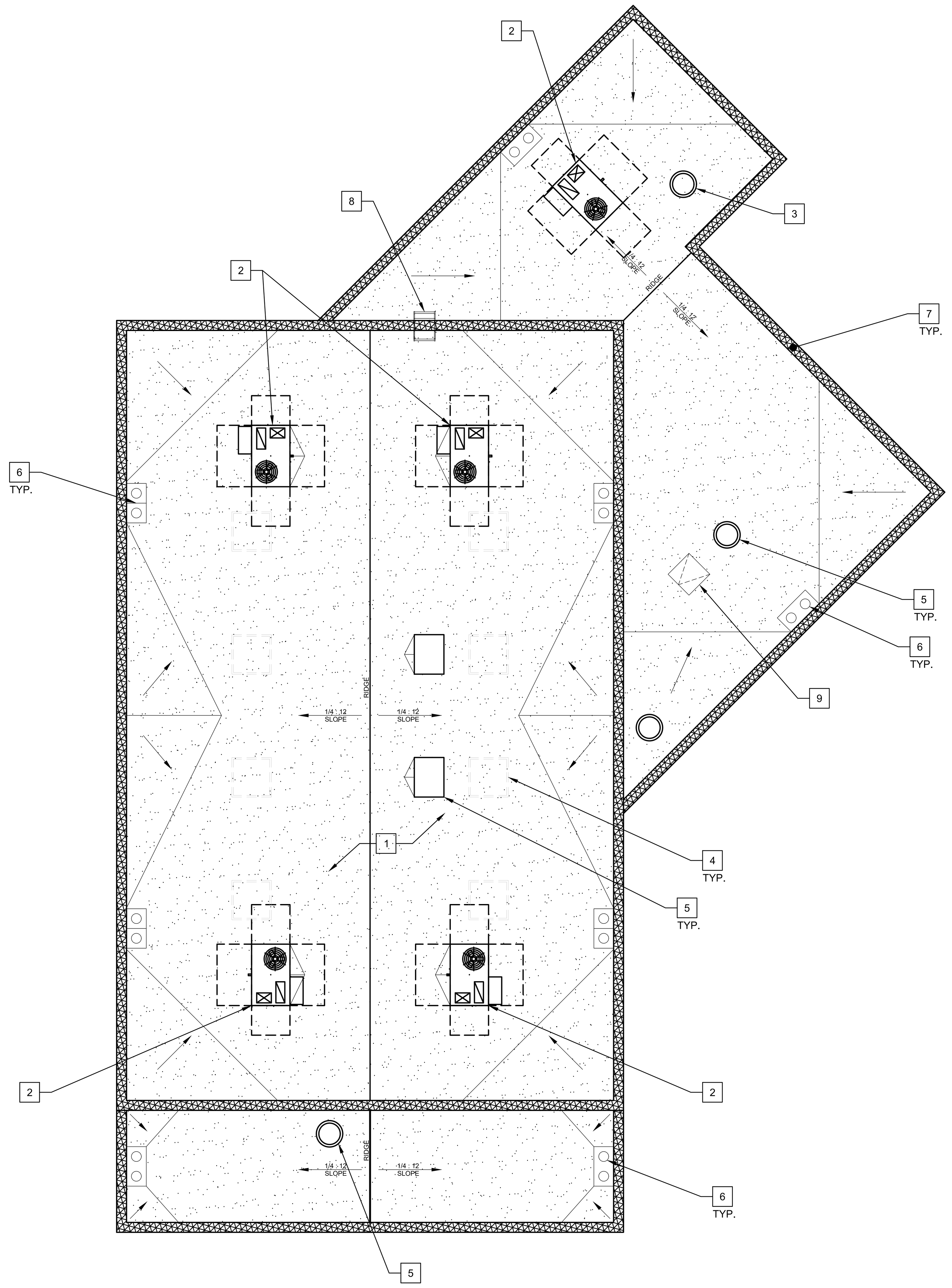
REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588
PLEASANTON UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
1		

DRAWN BY:	KNU
CHECKED BY:	MB
SFA JOB NO:	DATE:
20085	11/16/2021

A0.2

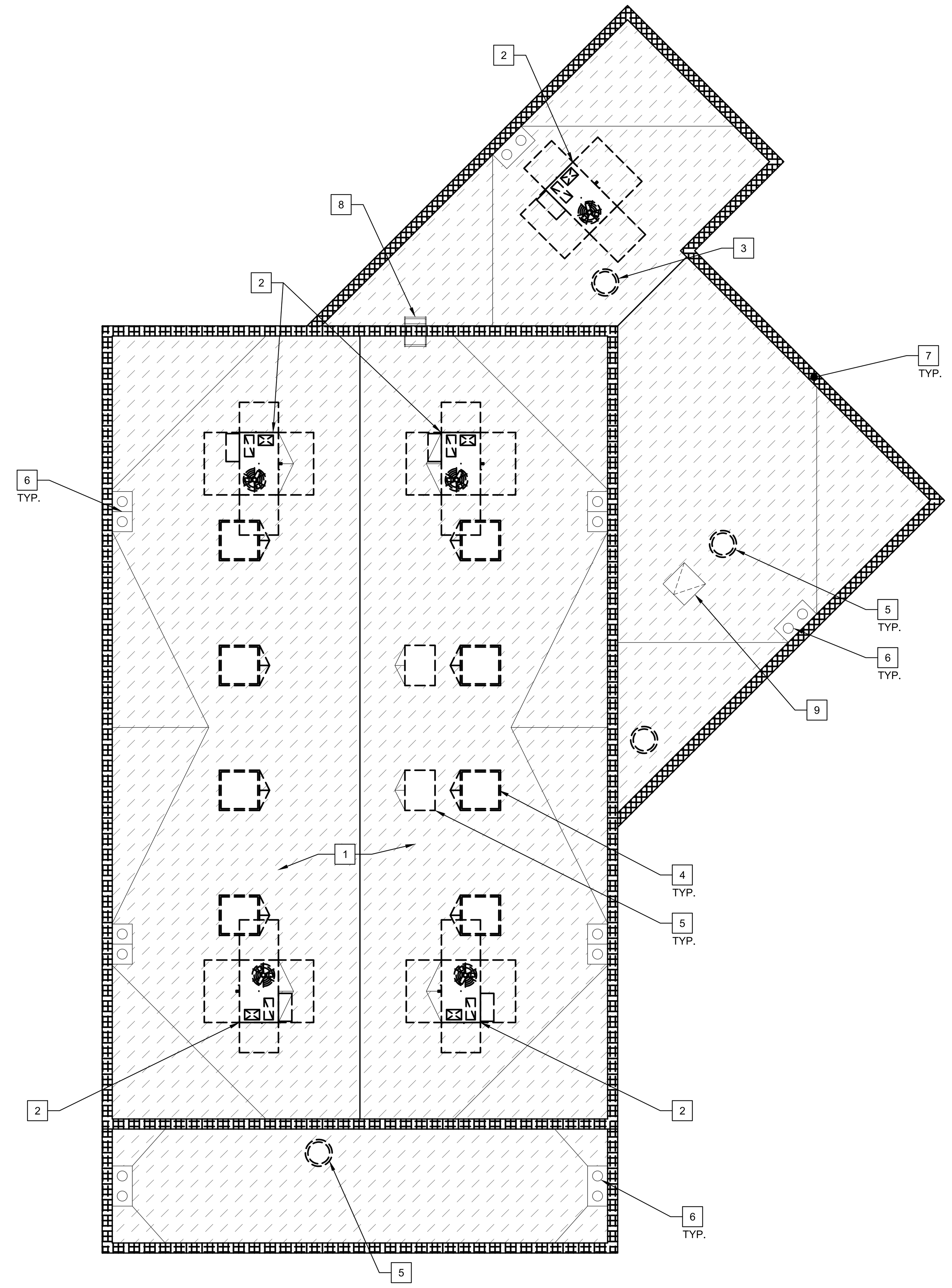


1 NEW ROOF PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

TRUE NORTH REF NORTH



1 DEMOLITION ROOF PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

TRUE NORTH REF NORTH

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 4/A9.1.

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. (E) EXHAUST FAN AND CURB TO BE REMOVED AND RE-INSTALLED IN NEW LOCATION, SEE NEW ROOF PLAN AND MECHANICAL DRAWINGS.
4. REMOVE (E) SKYLIGHT CAPS AND CURBS. PREPARE FOR ROOF INFILL AND NEW ROOFING SYSTEM.
5. REMOVE (E) EXHAUST FANS AND RELIEF HOODS, PREPARE FOR NEW FANS AND HOODS, SEE MECHANICAL DRAWINGS.
6. REMOVE (E) ROOF DRAINS AND OVERFLOW, PREPARE FOR NEW DRAINS.
7. REMOVE (E) PARAPET FLASHING AND COPING.
8. EXISTING ROOF LADDER TO REMAIN.
9. EXISTING ROOF ACCESS HATCH TO REMAIN.

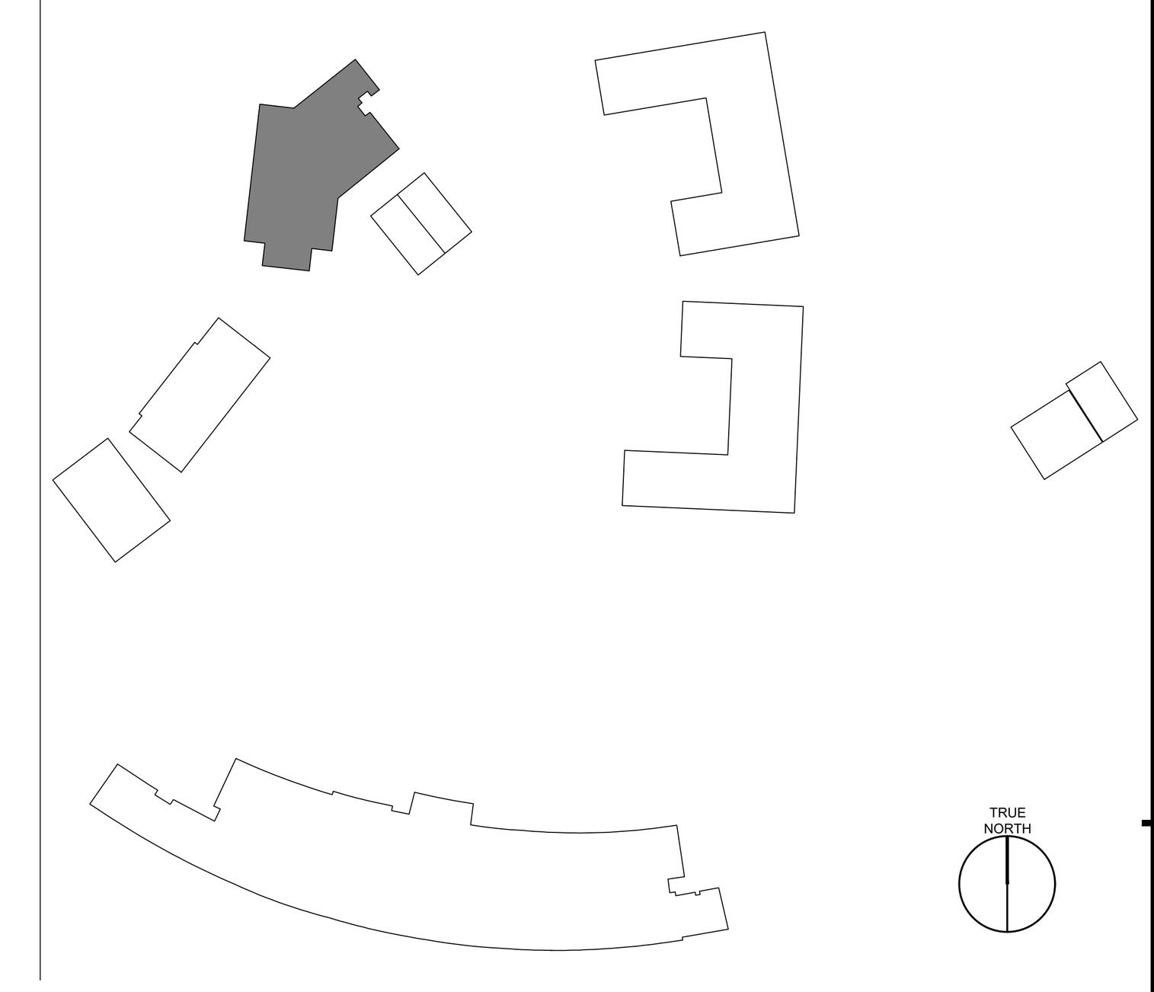
NEW ROOF PLAN NOTES

1. (N) ROOFING SYSTEM, INCLUDING INSIDE OF PARAPET WALL, SEE SPECS.
2. (N) AC UNITS, SEE DETAIL 1/A9.1 & MECHANICAL DRAWINGS.
3. (N) EXHAUST FAN AND (N)CURB INSTALLED IN NEW LOCATION, SEE DETAIL 8/A9.1 AND MECHANICAL DRAWINGS.
4. FRAME AND INFILL SKYLIGHT OPENING AND APPLY NEW ROOFING SYSTEM OVER PATCH. SEE DETAIL 9/A9.1.
5. (N) EXHAUST FANS AND RELIEF HOODS, SEE DETAILS 8/A9.1MECHANICAL DRAWINGS.
6. (N) ROOF DRAINS AND OVERFLOW, SEE DETAIL 3/A9.1 ADN PLUMBING DRAWINGS.
7. (N) PARAPET FLASHING AND COPING, SEE DETAIL 2/A9.1
8. EXISTING ROOF LADDER TO REMAIN.
9. EXISTING ROOF ACCESS HATCH TO REMAIN, SEE DETAIL 5/A9.1 FOR FLASHING DETAIL.

GRAPHIC KEY

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

BUILDING KEY



(DSA STAMP AREA)

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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN. 9-30-23
STATE OF CALIFORNIA

ROOF PLANS

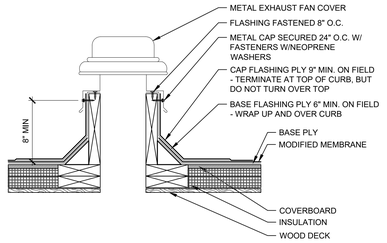
REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588
PLEASANTON UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
1		

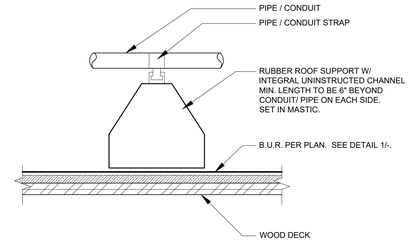
DRAWN BY:	KNU
CHECKED BY:	MB
SFA JOB NO: 20085	DATE: 11/16/2021

A4.1

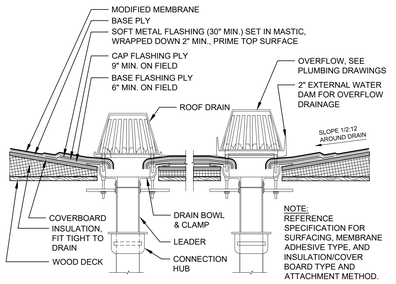


NOTE:
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

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

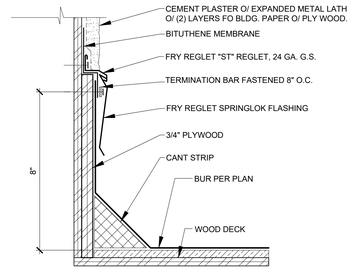


4 FLOATING SLEEPER
3"=1'-0"

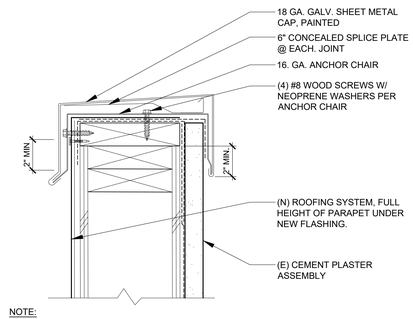


NOTE:
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

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

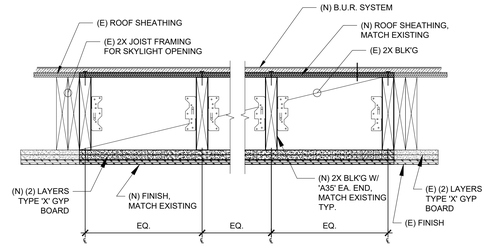


6 CEMENT PLASTER TO BUR
@ LOW TO TALL ROOF 3"=1'-0"



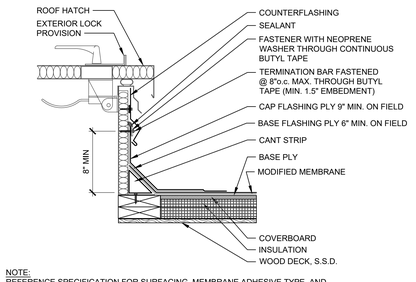
NOTE:
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

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



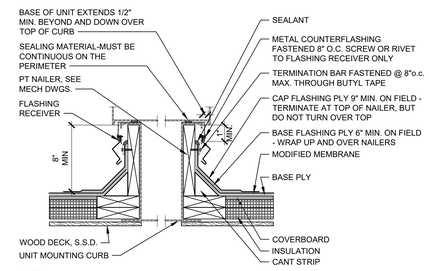
NOTE: PAINT ALL NEW SURFACES

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



NOTE:
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

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



NOTE:
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

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

(DSA STAMP AREA)

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TYPICAL DETAILS

REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588
PLEASANTON UNIFIED SCHOOL DISTRICT

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ABBREVIATIONS

&	AND	EQ	EQUAL	OD	OUTSIDE DIAMETER
°F	DEGREES FAHRENHEIT	EQUIP	EQUIPMENT	PD	PRESSURE DROP
AAV	AUTOMATIC AIR VENT	ESP	EXTERNAL STATIC PRESSURE	PH	PHASE
AC	AIR CONDITIONER	EW	ENTERING WATER	PLF	POUNDS PER LINEAR FOOT
AD	ACCESS DOOR	EWB	ENTERING WET BULB	POC	POINT OF CONNECTION
AFF	ABOVE FINISH FLOOR	EWT	ENTERING WATER TEMPERATURE	PRV	PRESSURE REDUCING VALVE
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	EXT	EXTERIOR	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
AL	ACOUSTICALLY LINED	FD	FLOOR DRAIN	P/T	PRESSURE/TEMPERATURE
AMP	AMPERE	FFE	FINISHED FLOOR ELEVATION	QTY	QUANTITY
AP	ACCESS PANEL	FLA	FULL LOAD AMPS	RA	RETURN AIR
APPROX	APPROXIMATE	FLEX	FLEXIBLE	RAD	RETURN AIR DAMPER
ARCH	ARCHITECT/ARCHITECTURAL	FPM	FEET PER MINUTE	RH	RELATIVE HUMIDITY
BDD	BACK DRAFT DAMPER	FS	FLOOR SINK	RL	REFRIGERANT LIQUID
BFP	BACK FLOW PREVENTER	FT	FEET	RM	ROOM
BHP	BRAKE HORSEPOWER	FT HD	FEET HEAD	RPM	REVOLUTIONS PER MINUTE
BLDG	BUILDING	FTR	FLUE THRU ROOF	RS	REFRIGERANT SUCTION
BOD	BOTTOM OF DUCT	GA	GAUGE	RV	RELIEF VALVE
BOP	BOTTOM OF PIPE	GAL	GALLON	SA	SUPPLY AIR
BTU	BRITISH THERMAL UNIT	GPM	GALLONS PER MINUTE	SC	SENSIBLE COOLING
BTUH	BRITISH THERMAL UNITS PER HOUR	HP	HORSEPOWER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
BTWN	BETWEEN	HR	HOUR	SD	SMOKE DAMPER
CA	COMBUSTION AIR	HTG	HEATING	SM	SHEET METAL
CFH	CUBIC FEET PER HOUR	HZ	HERTZ	SOV	SHUT-OFF VALVE
CFM	CUBIC FEET PER MINUTE	IE	INVERT ELEVATION	SP	STATIC PRESSURE
CHWR	CHILLED WATER RETURN	IN	INCH	SPEC	SPECIFICATION
CHWS	CHILLED WATER SUPPLY	INV	INVERT	SQ	SQUARE
CIRC	CIRCULATING	KW	KILOWATTS	SQFT, FT^2	SQUARE FEET
℄	CENTERLINE	KWH	KILOWATT HOUR	SQIN, IN^2	SQUARE INCHES
CLG	COOLING, CEILING	LAT	LEAVING AIR TEMPERATURE	STRUCT	STRUCTURAL
CLR	CLEAR	LBS	POUNDS	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
CONC	CONCRETE	LVR	LOUVER	TC	TOTAL COOLING
CONN	CONNECTION	LWT	LEAVING WATER TEMPERATURE	TDH	TOTAL DYNAMIC HEAD
CONT	CONTINUED, CONTINUATION	LWB	LEAVING WET BULB	TEMP	TEMPERATURE
COOL	COOLING	MAD, MD	MANUAL AIR DAMPER	THRU	THROUGH
COP	COEFFICIENT OF PERFORMANCE	MAV	MANUAL AIR VENT	TSP	TOTAL STATIC PRESSURE
DB	DRY BULB	MAX	MAXIMUM	TV	TURNING VANES
DF	DRINKING FOUNTAIN	MBH	1000 BTU PER HOUR	TYP	TYPICAL
D/L	DOOR LOUVER	MCA	MINIMUM CIRCUIT AMPS	UL	UNDERWRITER'S LABORATORIES
DN	DOWN	MCP	MECHANICAL CONTROL PANEL	UON	UNLESS OTHERWISE NOTED
DP	DIFFERENTIAL PRESSURE	MECH	MECHANICAL	V	VOLT
DWGS	DRAWINGS	MFR	MANUFACTURER	VFD	VARIABLE FREQUENCY DRIVE
(E)	EXISTING	MIN	MINIMUM	VTR	VENT THROUGH ROOF
EA	EXHAUST AIR	MOCP	MAXIMUM OVERCURRENT PROTECTION	W	WATTS
EAD	EXHAUST AIR DAMPER	(N)	NEW	W/	WITH
EAT	ENTERING AIR TEMPERATURE	NC	NORMALLY CLOSED	WB	WET BULB
EDB	ENTERING DRY BULB	NIC	NOT IN CONTRACT	WC	WATER COLUMN
EER	ENERGY EFFICIENCY RATIO	NO	NORMALLY OPEN	WH	WATER HEATER
EFF	EFFICIENCY	NTS	NOT TO SCALE	WT	WEIGHT
ELEC	ELECTRICAL	OA	OUTSIDE AIR		
ELEV	ELEVATION	OAD	OUTSIDE AIR DAMPER		
ENT	ENTERING	OC	ON CENTER		

LIST OF GOVERNING CODES

2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
2019 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

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(c).
5. CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 AND 4-343(c).
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

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.
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.
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.
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.
5. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

MEP COMPONENT ANCHORAGE NOTE

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.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
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.
3. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT 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.

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.

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

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.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD 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 HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

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

MP ☒ MD ☒ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #)
#0295-13, "UNISTRUT" OR
#0052-13, "B-LINE/TOLCO"

SYMBOL LEGEND

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
		LONG SWEEP 90° ELBOW - RECTANGULAR, ROUND OR OVAL
		45° ELBOW - RECTANGULAR, ROUND OR OVAL
		30° ELBOW - RECTANGULAR, ROUND OR OVAL
		90° ELBOW - RECTANGULAR DUCT WITH TURNING VANES
		45° LATERAL - ROUND TO ROUND OR OVAL TO OVAL
		90° TAKEOFF WITH 45° TAPER - RECTANGULAR TO RECTANGULAR (FOR BRANCH TAKEOFF LONGER THAN 50'-0", USE 15)
		90° TAKEOFF WITH 45° ELONGATED TEE - ROUND TO ROUND
		Y BRANCH - ROUND OR OVAL DUCT
		90° RADIUS SPLIT - RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, X/Y PROPORTIONAL SPLIT
		90° RECTANGULAR SPLIT - RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, X/Y PROPORTIONAL SPLIT
		TRANSITION - RECTANGULAR TO ROUND OR RECTANGULAR TO OVAL
		FLEXIBLE DUCT - ROUND
		FLEXIBLE DUCT - RECTANGULAR

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
		SECTION AT SUPPLY AIR OR MAKE-UP AIR DUCT UP
		SECTION AT RETURN AIR OR COMBUSTION AIR DUCT UP
		SECTION AT EXHAUST AIR OR RELIEF AIR DUCT UP
		SUPPLY AIR DUCT DOWN
		RETURN AIR DUCT DOWN
		EXHAUST AIR DUCT DOWN
		ROUND DUCT UP - SUPPLY, RETURN OR EXHAUST
		ROUND DUCT DOWN - SUPPLY, RETURN OR EXHAUST
		CEILING DIFFUSER - ONE, TWO, THREE AND FOUR WAY THROW
		CEILING - RETURN AND EXHAUST REGISTERS
		SIDEWALL - SUPPLY DIFFUSER, RETURN AND EXHAUST REGISTERS
		MANUAL BALANCE DAMPER WITH DUCT ACCESS DOOR
M	M	MOTORIZED BALANCE DAMPER WITH DUCT ACCESS DOOR
FSD OR F/D	FSD OR F/D	FIRE DAMPER WITH DUCT ACCESS DOOR FIRE/SMOKE DAMPER WITH DUCT ACCESS DOOR
24 x 12	24 x 12	ACOUSTICALLY LINED DUCT. DIMENSIONS ARE INSIDE
12x12 CD-1 300		REGISTER NECK SIZE AND TAG DESIGN CFM
		PANEL AT T-BAR CEILING

SYMBOL	ABBRV.	IDENTIFICATION
		CAP
	CONT	CONTINUATION
		UNION
		LINE BREAK
	CKV	CHECK VALVE
	T&PRV	TEMP. & PRESS. RELIEF VALVE
OR		VALVE
		CONCENTRIC & ECCENTRIC REDUCERS
	AD, AP	ACCESS DOOR, ACCESS PANEL
	MAV	MANUAL AIR VENT
T	T	THERMOSTAT MOUNTED @ 48" AFF. MAX.
CO2	CO2	CARBON DIOXIDE (CO2) SENSOR

SYMBOL	ABBRV.	IDENTIFICATION
	P.O.C.	POINT OF CONNECTION
		REMOVE EXISTING
		TEE DOWN
		90 DOWN
FC A-1		EQUIPMENT DESIGNATION
		TAG NUMBER
M2.1		SECTION 1 / SHEET M2.1

GENERAL NOTES

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.
2. CONTRACTOR SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL SYSTEMS.
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.
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.
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.
6. ALL EQUIPMENT, EQUIPMENT CONNECTIONS, PIPING, MOUNTING LOCATIONS ETC. ARE TO BE VERIFIED WITH OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO BEGINNING OF THE ROUGH-IN.
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.
8. ALL EQUIPMENT SHALL BE NEW AND CLEARLY LABELED AND IDENTIFIED. LABELS SHALL NOT BE COVERED BY OTHER CONSTRUCTION ELEMENTS.
9. UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS, CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT AND WORK FOR A PERIOD OF ONE YEAR.
6. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS, EVERYTHING IS NEW.
7. 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.
8. 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.
9. 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.
10. THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW/ APPROVAL AND CONTRACTOR BIDDING PURPOSES.
11. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT DRAWINGS.
12. 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.
13. 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.
14. 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.
15. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.
16. FOR ALL VOLUME DAMPERS LOCATED ABOVE CEILINGS, PROVIDE 12" LONG 1/2" WIDE FLUORESCENT ORANGE TAPE TO MARK DAMPER LOCATIONS.
17. 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.
18. CONTRACTOR SHALL PREPARE AND SUBMIT THE CALIFORNIA ENERGY COMMISSION TITLE 24 CERTIFICATE OF ACCEPTANCE FORMS RELATED TO INSTALLED EQUIPMENT AND SYSTEMS.
19. SAFETY: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
20. CONTRACTOR'S EQUIPMENT: COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. COORDINATE WITH OWNER FOR LOCATION AND PROCEDURES.
21. ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.
22. CONSTRUCTION SCHEDULING: CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOINING THE PROJECT, AND NOT PART OF THE PROJECT.
23. 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.

DRAWING INDEX

(DSA STAMP AREA)

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IN SERVICE
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STATE OF CALIFORNIA

BID SET
No. 413750
11-05-2021

CEG JOB NO: 21131

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SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL & PLUMBING

REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
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REVISIONS

NO.	ITEM	DATE

DRAWN BY:	CAD
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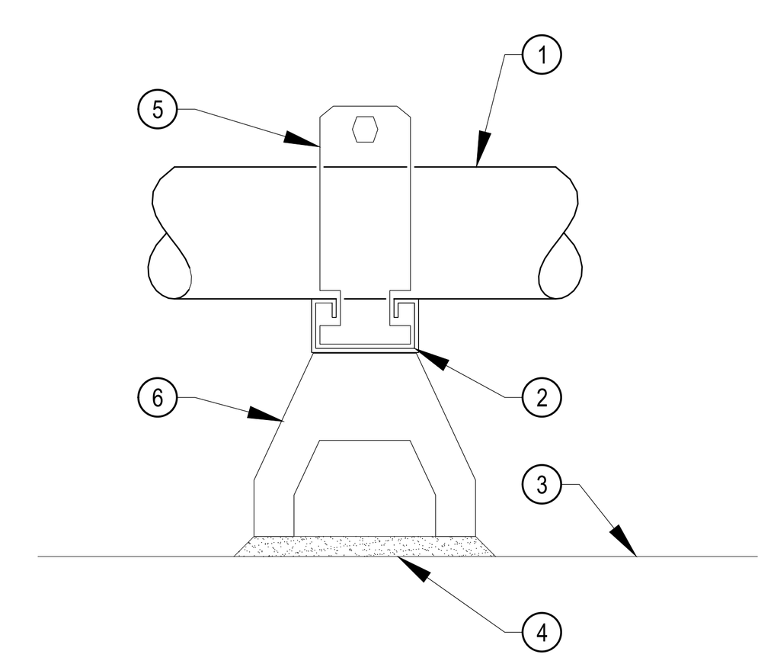
SFA JOB NO:	DATE:
20085	11/05/2021

MP0.1

DETAIL NOTES:

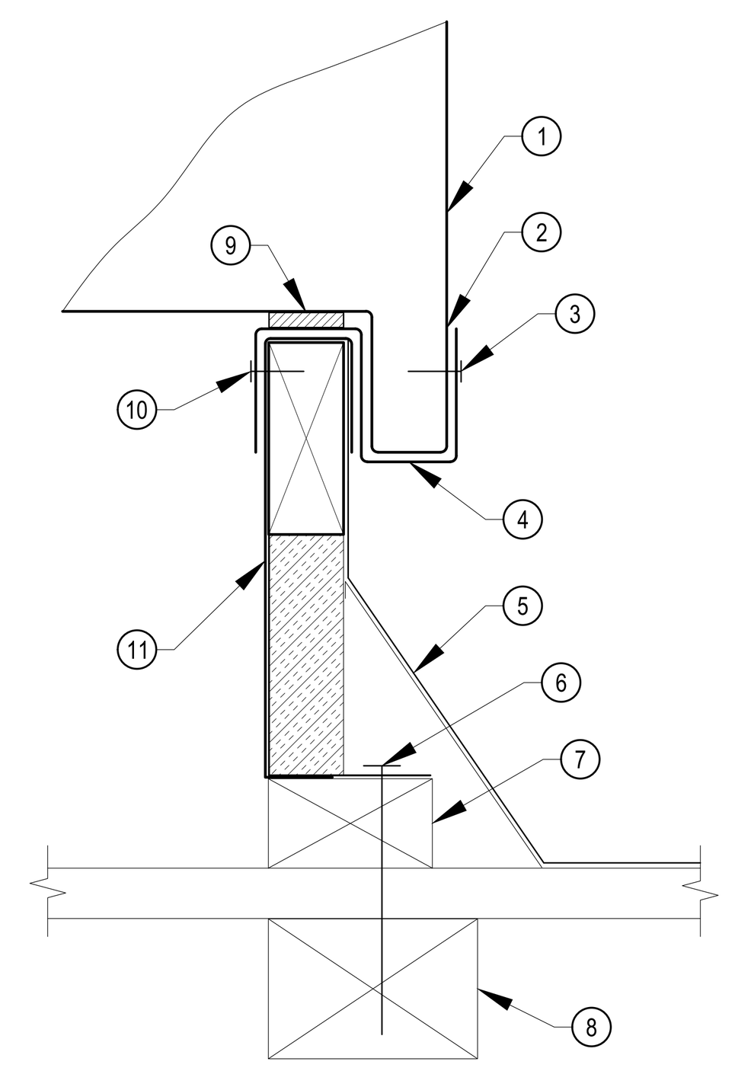
1. FOR PIPE SIZES AND TYPES, SEE PLANS.
2. PROVIDE GAP BETWEEN INTEGRAL STRUT CHANNEL AND HARDWARE USED TO SECURE PIPE TO ALLOW FOR MOVEMENT OF SYSTEM.
3. ROOF DECK.
4. SET SUPPORT IN MASTIC COMPATIBLE WITH ROOF SURFACE.
5. PROVIDE STANDARD STRUT CLAMPS.
6. B-LINE DURA-BLOCK WITH INTEGRAL CHANNEL AND PIPE BRACKETS, WIDTH AS REQUIRED FOR NUMBER OF PIPES.



NOTES:

1. REFER TO SPECIFICATIONS FOR SPACING BETWEEN SUPPORT BLOCKS. ADDITIONALLY PROVIDE BLOCK WITHIN 2'-0" OF ANY CHANGE OF DIRECTION.

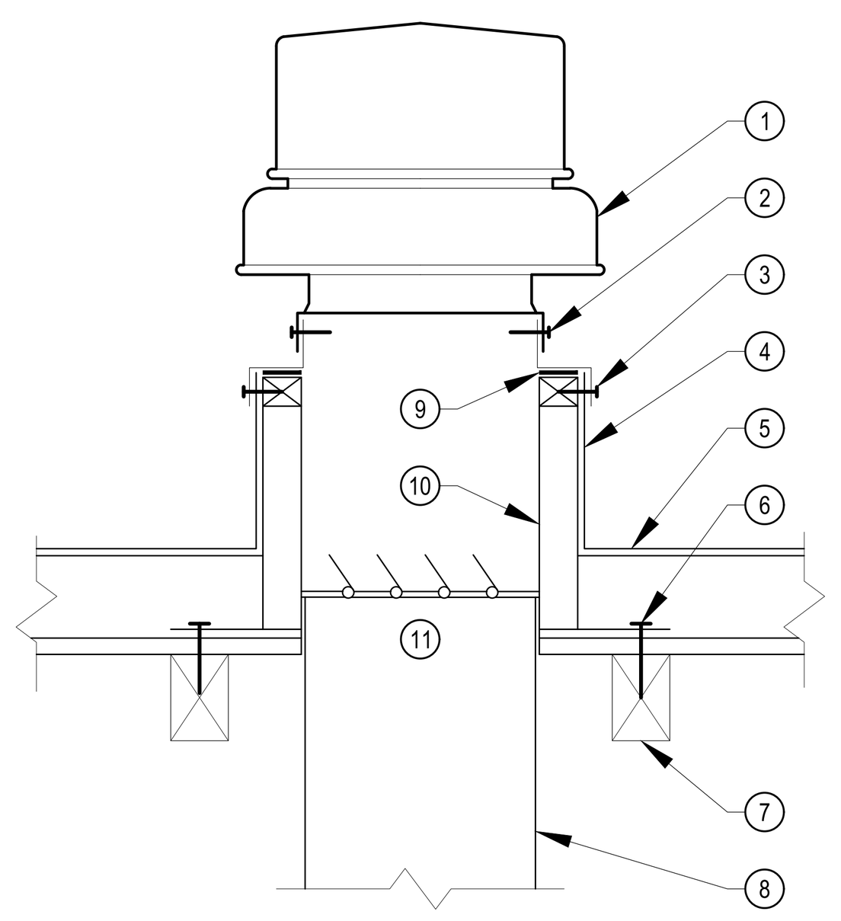
3 PIPE SUPPORT ON ROOF N.T.S.



DETAIL NOTES:

1. UNIT. FOR LOCATION, SEE PLANS.
2. UNIT BASE RAIL.
3. SECURE HOLD DOWN TO UNIT BASE RAIL WITH (4) #10 x1/2" TEK SCREWS.
4. MICROMETL UNIT HOLD DOWNS, TYPICAL OF 2 PER SIDE.
5. FOR FLASHING, SEE ARCHITECT'S DRAWINGS.
6. 5/8"Ø LAG BOLT. MINIMUM 3" EMBEDMENT INTO BLOCKING BELOW.
7. PRESSURE TREATED DOUGLAS FIR LEVELING RAIL.
8. 4x8 BLOCKING, ATTACH TO (E) STRUCTURE.
9. SEALING GASKET.
10. SECURE HOLD DOWN TO UNIT CURB WITH (4) #10 x 1/2" TEK SCREWS, TYP.
11. ROOF CURB WITH WOOD NAILER.

1 ROOFTOP AIR CONDITIONER MOUNTING ON NEW CURB N.T.S.



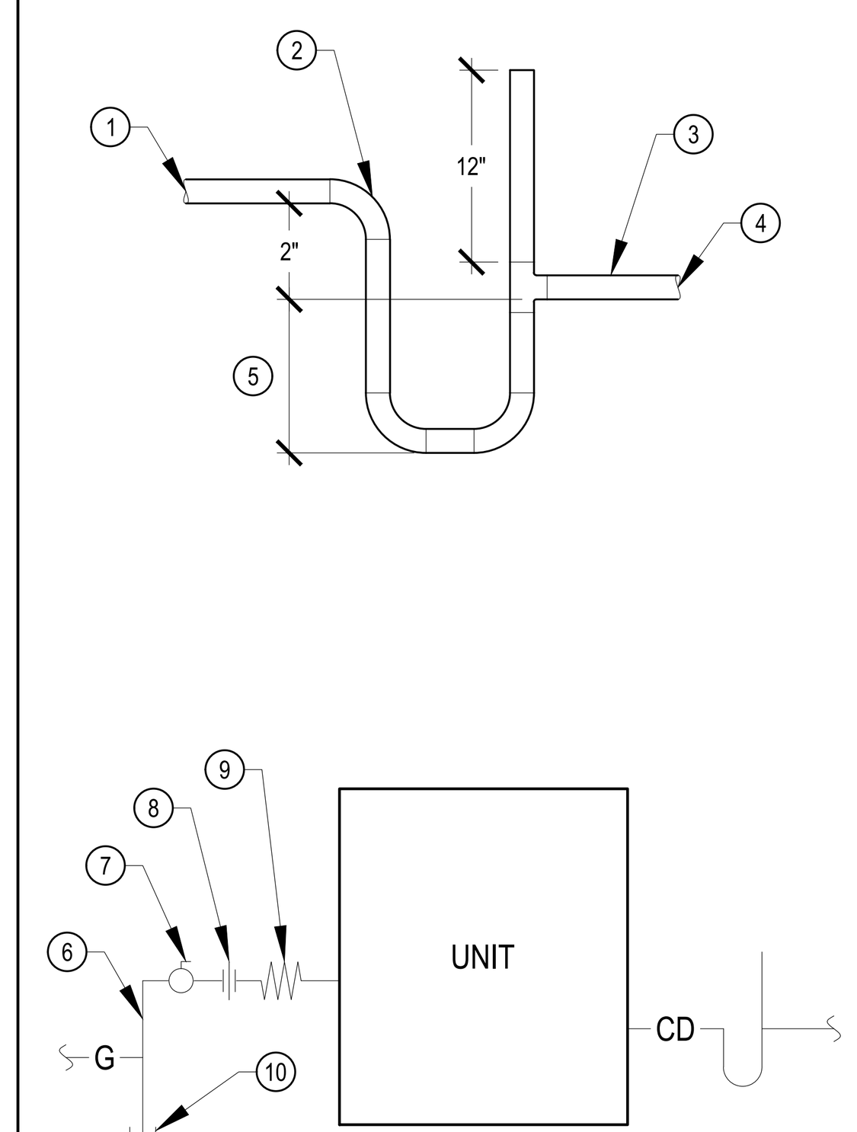
DETAIL NOTES:

1. ROOF EXHAUST FAN. SEE PLANS FOR LOCATIONS.
2. CURB ADAPTER OR REDUCER AS NECESSARY. ATTACH EXHAUST FAN TO CURB ADAPTER/REDUCER WITH #12 SELF TAPPING SCREWS AT 12" ON CENTER. MINIMUM 2 PER SIDE.
3. SECURE TO ROOF CURB WITH #12 SELF TAPPING SCREWS AT 12" ON CENTER. MINIMUM 2 PER SIDE.
4. FOR ROOFING AND FLASHING, SEE ARCHITECT'S DRAWINGS.
5. ROOF DECK.
6. 3/8"Ø BOLT THRU CURB AND ROOF WITH 3" MINIMUM EMBEDMENT INTO BLOCKING.
7. 4x BLOCKING. ATTACH TO (E) ROOF FRAMING.
8. DUCT.
9. SEALING GASKET.
10. ROOF CURB WITH WOOD NAILER.
11. BACKDRAFT DAMPER.

NOTE:

ROOF HOOD MOUNTING SIMILAR.

4 ROOF MOUNTED FAN N.T.S.



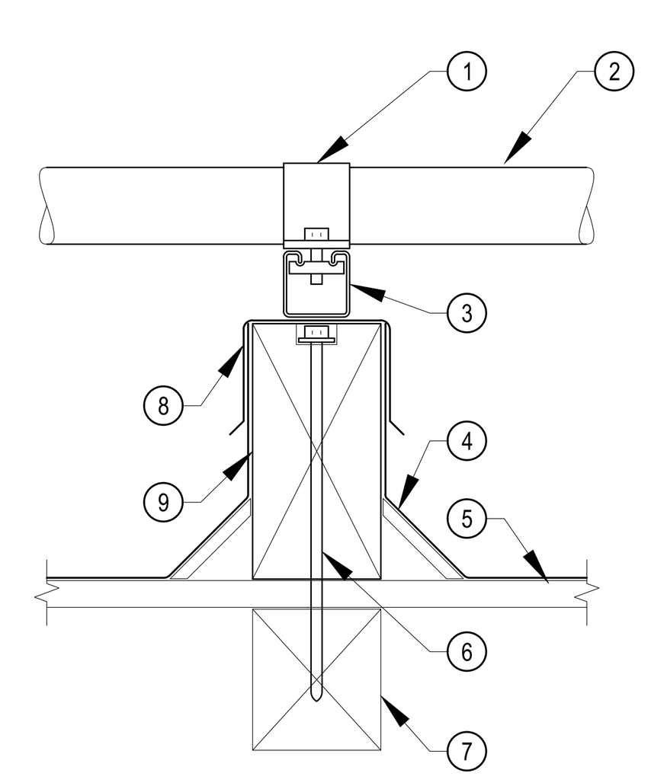
DETAIL NOTES:

1. CONNECT CD TO UNIT PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
2. LONG RADIUS ELBOW, TYP.
3. PITCH MINIMUM 1/8" PER FOOT.
4. ROUTE TO POC. SEE PLANS.
5. UNIT TOTAL INCHES STATIC PRESSURE ±2".
6. NATURAL GAS PIPE.
7. GAS SHUTOFF VALVE TYP AT EACH UNIT.
8. UNION.
9. FLEXIBLE CONNECTOR.
10. DIRT LEG.

NOTES:

1. CD PIPE SIZE SHALL NOT BE SMALLER THAN UNIT DRAIN CONNECTION SIZE.
2. FOR PIPE SIZES AND LOCATIONS, SEE PLANS.

2 GAS AND CONDENSATE DRAIN CONNECTION TO EQUIPMENT N.T.S.



DETAIL NOTES:

1. COOPER B-LINE B2400 PIPE STRAP.
2. FOR PIPE SIZES AND TYPES, SEE PLANS.
3. COPPER B-LINE B22 CHANNEL. ATTACH TO SLEEPER WITH #12x1-1/12" LAG SCREW, ONE AT EACH END OF CHANNEL.
4. FOR FLASHING, SEE ARCHITECT'S DRAWINGS.
5. ROOF DECK.
6. 3/8"Ø LAG SCREW INTO BLOCKING BELOW. MINIMUM 2" EMBEDMENT. TYP OF 2. COUNTERSUNK HEAD AT SLEEPER.
7. 4X BLOCKING. ATTACH TO ROOF STRUCTURE.
8. 20 GAUGE SHEET METAL COVER. ATTACH TO SLEEPER WITH #10 SMS.
9. 4X PRESSURE TREATED DOUGLAS FIR SLEEPER. RIP TO LEVEL. LENGTH AS REQUIRED FOR PIPES.

NOTES:

1. PROVIDE SUPPORT ANCHORS AT BEGINNING AND END OF PIPE RUNS AND WITHIN 2'-0" OF CHANGE OF DIRECTION.

5 GAS PIPE ANCHOR ON ROOF N.T.S.

PACKAGED ROOFTOP AIR CONDITIONING UNITS SCHEDULE BLD-MPR

TAG	MANUFACTURER	MODEL NO.	COOLING MBH		GAS HEATING MBH		AIRFLOW CFM	ESP IN. W.G.	OUTSIDE AIR CFM	FAN RPM	MOTOR BHP	EER	AFUE %	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
			TOTAL	SENSIBLE	INPUT	OUTPUT								V / PH	MCA	MOCP			
AC-1	CARRIER	48FCDM07	72.42	55.62	67	54	2400	1.0	-	2591	1.86	11	81	460 / 3	17	20	670	1/MP0.2	1, 2, 3, 4, 5, 6, 7
AC-2	CARRIER	48FCDM07	72.42	55.62	67	54	2400	1.0	-	2591	1.86	11	81	460 / 3	17	20	670	1/MP0.2	1, 2, 3, 4, 5, 6, 7
AC-3	CARRIER	48FCDM07	72.42	55.62	67	54	2400	1.0	-	2591	1.86	11	81	460 / 3	17	20	670	1/MP0.2	1, 2, 3, 4, 5, 6, 7
AC-4	CARRIER	48FCDM07	72.42	55.62	67	54	2400	1.0	-	2591	1.86	11	81	460 / 3	17	20	670	1/MP0.2	1, 2, 3, 4, 5, 6, 7
AC-5	CARRIER	48GCDM04	35.14	25.59	67 50	54 40	1200	1.0	-	2028	0.61	12.5	81	460 / 3	12	15	562	1/MP0.2	1, 2, 3, 4, 5, 6, 7

1. WEIGHT INCLUDES ALL OPTIONS AND ACCESSORIES.
2. PROVIDE WITH TEMP ULTRA 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 PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER. CONTROLLER TO BE FIELD INSTALLED. COORDINATE WITH MANUFACTURER.
6. VERTICAL DISCHARGE CONFIGURATION.
7. PROVIDE WITH MANUFACTURER'S ROOF CURB.

ROOF EXHAUST FANS SCHEDULE

TAG	MANUFACTURER	MODEL NO.	AIRFLOW CFM	ESP IN. W.G.	FAN RPM	SOUND POWER SONES	MOTOR		WEIGHT LBS	MOUNTING DETAIL	NOTES
							HP	V / PH			
EF-1	GREENHECK	G-140-VG	1050	0.5	942	6.6	1 / 2	115 / 1	76	4/MP0.2	1, 2, 5
EF-2	GREENHECK	G-120-VG	875	0.5	1077	7.2	1 / 4	115 / 1	64	4/MP0.2	1, 2, 5
EF-3	GREENHECK	G-130-VG	950	0.5	1030	7.4	1 / 4	115 / 1	65	4/MP0.2	1, 2, 4
EF-4	GREENHECK	G-100-VG	665	0.5	1215	5.5	1 / 4	115 / 1	58	4/MP0.2	1, 2, 3

1. PROVIDE WITH ROOF CURB TO MATCH EXISTING OPENING. PROVIDE CURB CAP ADAPTER OR REDUCER AS REQUIRED.
2. PROVIDE WITH BACK DRAFT DAMPER AND BIRD SCREEN
3. INTERCONNECT EXHAUST FAN WITH (E) THERMOSTAT.
4. CONTROL WITH (E) WALL MOUNTED ON-OFF SWITCH .
5. INTERCONNECT EXHAUST FAN WITH LIGHTS.

ROOF HOOD SCHEDULE

TAG	MANUFACTURER	MODEL NO.	TYPE	HOOD SIZE (IN)			THROAT SIZE (IN)		WEIGHT LBS	MOUNTING DETAIL	NOTES
				W	L	H	W	L			
GH-1	GREENHECK	FGI- 24 X 36	RELIEF	43	60	19	24	36	142	4/MP0.2	1,2,3
GH-2	GREENHECK	FGI- 24 X 36	RELIEF	43	60	19	24	36	142	4/MP0.2	1,2,3

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

(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 UNITS:

1. EACH UNIT SHALL BE CONTROLLED BY PELICAN WIRELESS THERMOSTAT. COORDINATE WITH DISTRICT REPRESENTATIVE FOR NETWORK SETTINGS, OCCUPANCY SCHEDULES, SETPOINTS, SETBACK, ETC.
2. PELICAN WIRELESS THERMOSTAT SHALL BE CONNECTED TO NEW WIRELESS GATEWAY ON CAMPUS. COORDINATE WITH DISTRICT REPRESENTATIVE FOR IP ADDRESS AND NETWORK SETTINGS.
3. UNIT SHALL OPERATE UNDER ITS OWN INTERNAL SEQUENCE TO PROVIDE HEATING OR COOLING BASED ON ROOM SETPOINT.
4. PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER SHALL MODULATE OUTSIDE AIR DAMPER TO PROVIDE FREE COOLING WHEN OUTSIDE AIR IS BELOW 75°F (HIGH TEMPERATURE LIMIT) AND OUTSIDE AIR TEMP IS 2°F BELOW ROOM TEMPERATURE (MINIMUM TEMPERATURE DIFFERENTIAL).
5. PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER SHALL MODULATE OUTSIDE AIR DAMPER OPEN IF ROOM CO_2 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.

EXHAUST FANS:

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

PELICAN CONTROLS AND SEQUENCE OF OPERATION

(DSA STAMP AREA)

BID SET
11-05-2021

CEG JOB NO: 21131
CYPRESS Engineering Group
HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Environmental Compliance
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cypresseg.com

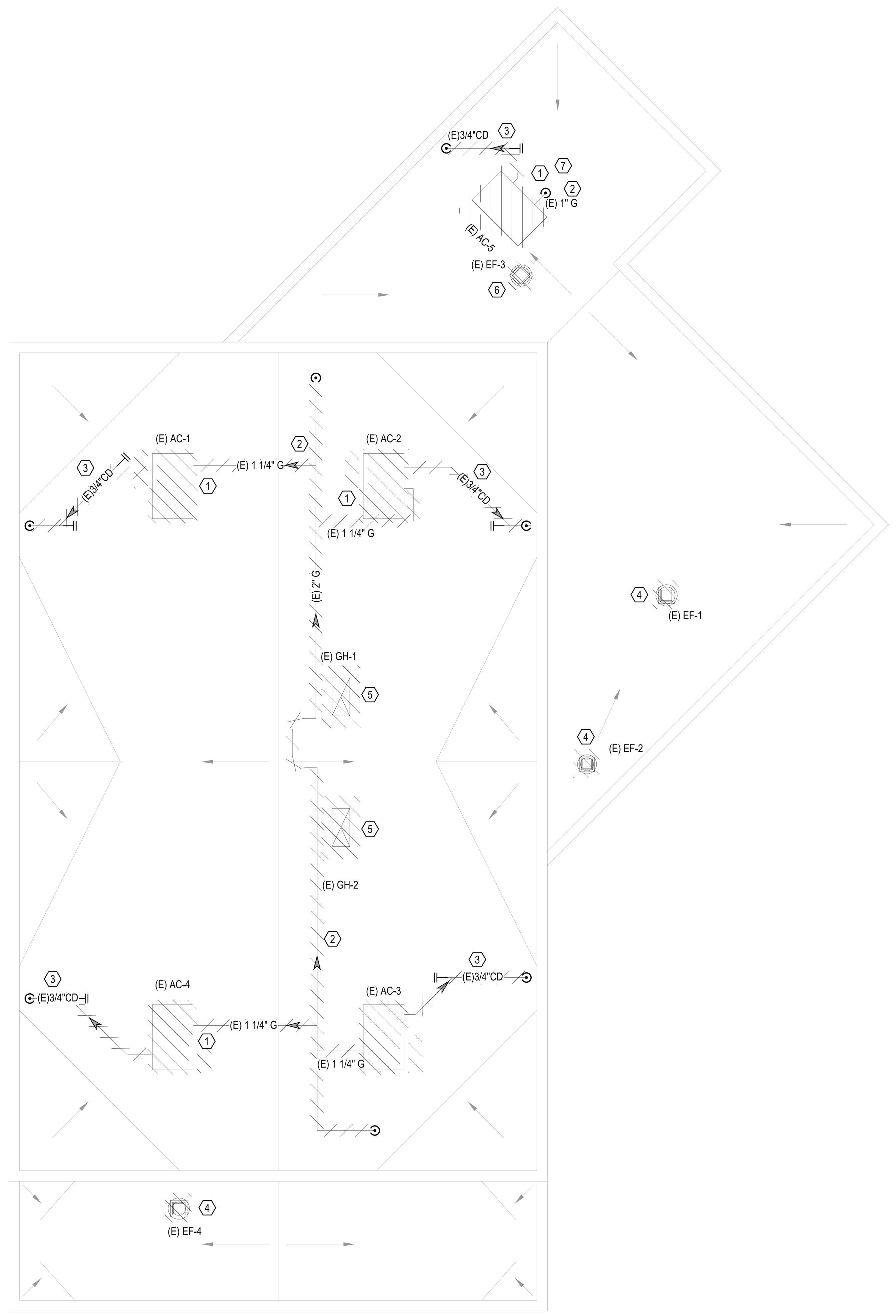
SCHEDULES & DETAILS - MECHANICAL & PLUMBING

REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588
PLEASANTON UNIFIED SCHOOL DISTRICT

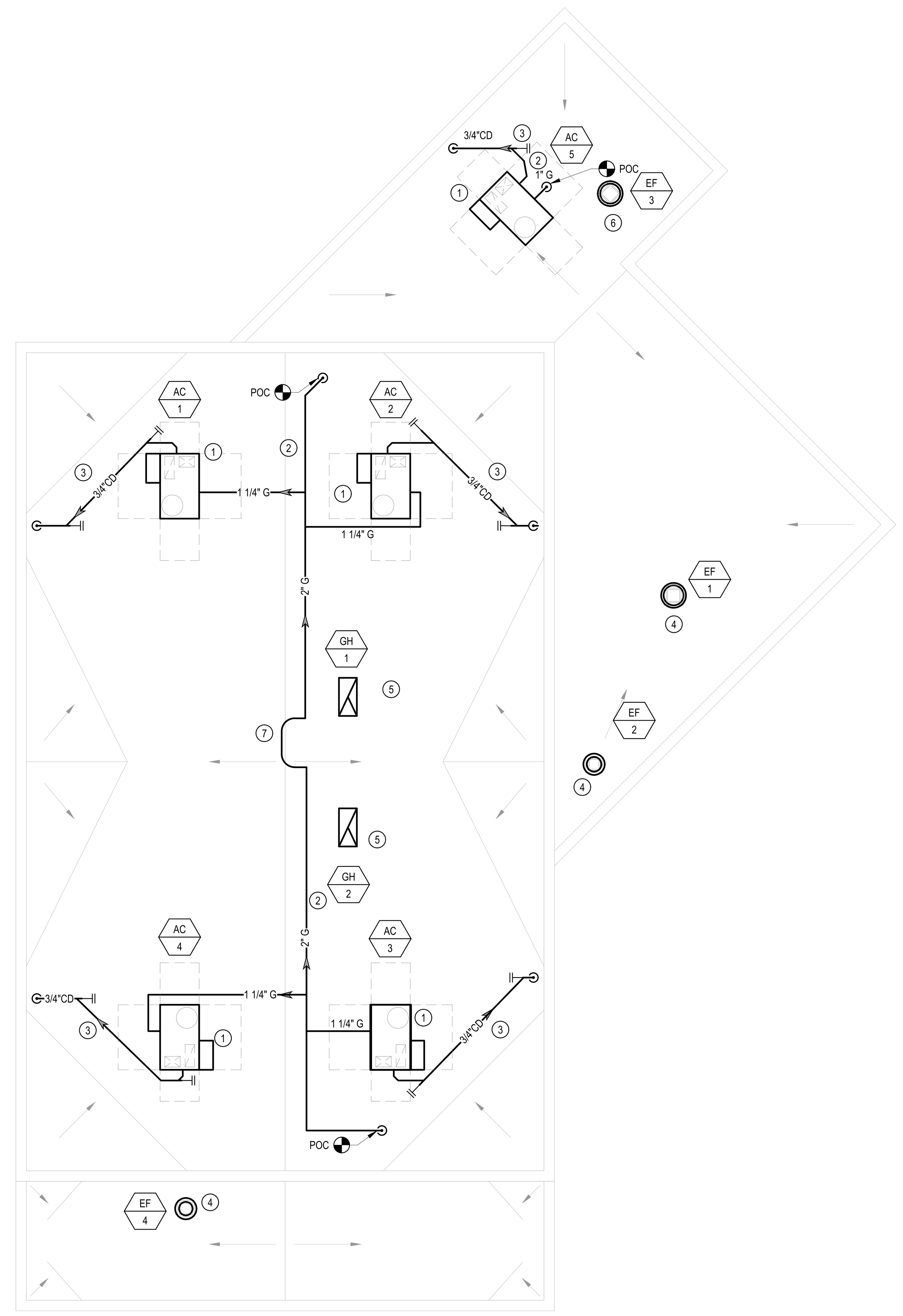
REVISIONS NO.	ITEM	DATE

DRAWN BY: CAD
CHECKED BY: CS
SFA JOB NO: 20085
DATE: 11/05/2021

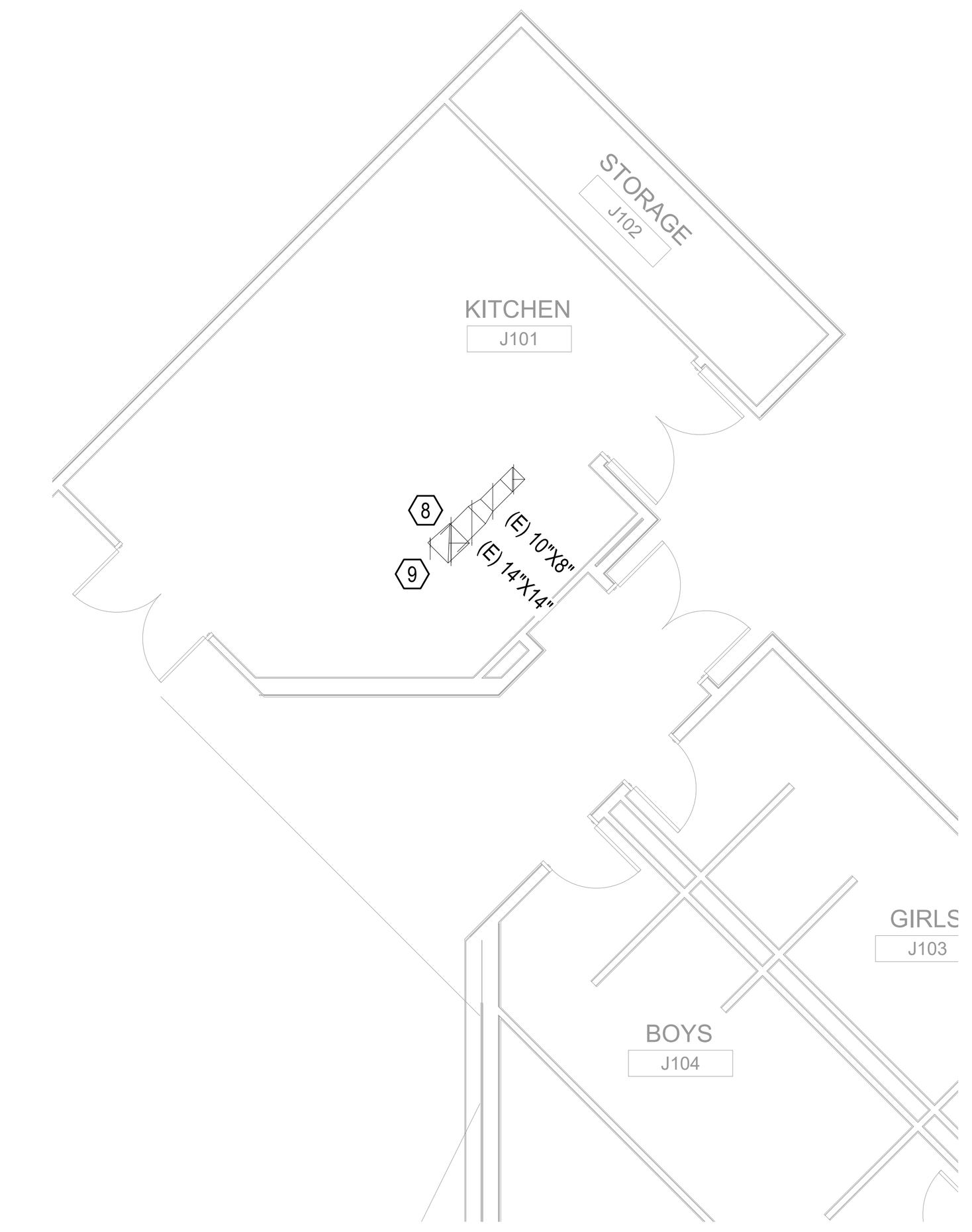
MP0.2



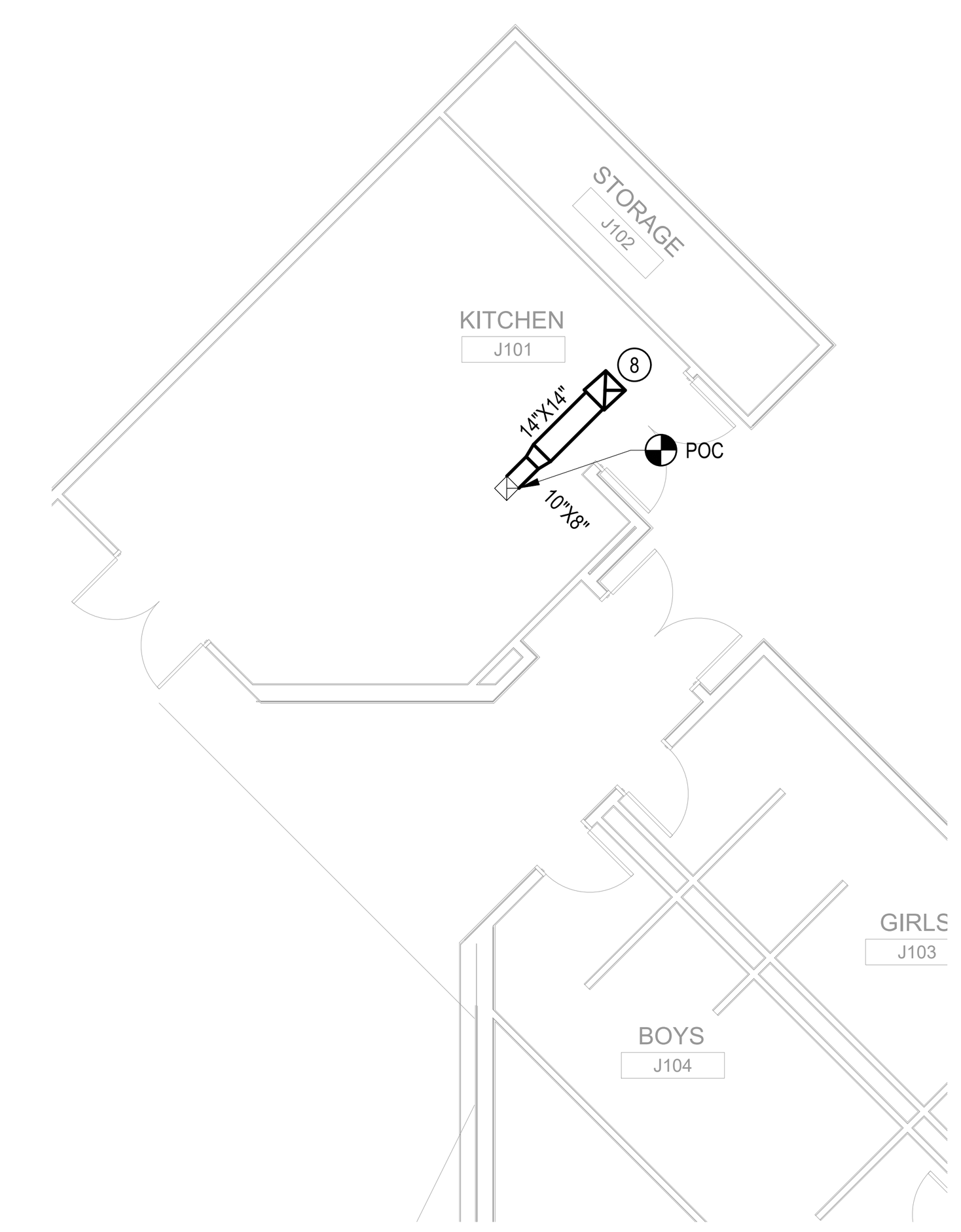
1 MP3.1 BUILDING J - DEMO ROOF PLAN
SCALE: 1/8" = 1'-0"



2 MP3.1 BUILDING J - NEW ROOF PLAN
SCALE: 1/8" = 1'-0"



3 MP3.1 BUILDING J - PARTIAL DEMO FLOOR PLAN
SCALE: 1/8" = 1'-0"



3 MP3.1 BUILDING J - PARTIAL NEW FLOOR PLAN
SCALE: 1/8" = 1'-0"

(#) 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 FROM POC TO UNION ON RISER CONNECT NEW GAS PIPE TO EACH NEW AC UNIT .INSTALL NEW GAS PIPING WITH SHUTOFF VALVE, DIRT LEG, AND FLEX CONNECTION AT NEW AC UNIT.CONNECT GAS PIPING TO AC UNIT PER DETAIL 2/MP0.2. FOR PIPE SUPPORT SEE DETAIL 3/MP0.2.
3. INSTALL NEW CD PIPING WITH P-TRAP TO NEW AC UNIT. ROUTE TO NEAREST ROOF DRAIN AND SPILL WITH 1" AIR GAP. CONNECT CD PIPING TO AC UNIT PER DETAIL 2/MP0.2. FOR PIPE SUPPORT SEE DETAIL 3/MP0.2.
4. INSTALL NEW ROOF EXHAUST FAN ON NEW ROOF CURB. CONNECT TO (E) DUCT WORK .
5. INSTALL NEW RELIEF HOOD ON NEW ROOF CURB. CONNECT TO (E) DUCT WORK .
6. INSTALL NEW EXHAUST FAN ON NEW ROOF CURB PROVIDE NEW ROOF OPENING. EXTEND NEW DUCT WORK FROM EXISTING DUCTWORK AT BELOW FLOOR, MAINTAIN MINIMUM 10 FT FROM ANY OUTSIDE AIR INTAKE OPENING.
7. INSTALL METRAFLEX GAS PIPE LOOP.
8. RUN EXHAUST DUCT UP TO RELOCATED FAN ON THE ROOF.

⟨#⟩ 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. 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) RELIEF HOOD AND (E) ROOF CURB . PRESERVE ROOF OPENING FOR NEW ROOF HOOD.
6. REMOVE (E) ROOF EXHAUST FAN AND (E) ROOF CURB. PATCH (E) ROOF OPENING PER ARCHITECT'S DIRECTIONS.
7. 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.
8. PATCH (E) PENETRATION PER ARCHITECT'S DRAWINGS.
9. REMOVE EXHAUST DUCT UP TO THE EXHAUST FAN LOCATED ON THE ROOF.

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.
7. ANCHOR GAS PIPE ON ROOF PER 5/MP0.2.
8. CHECK THE UNITS FOR HEATING, COOLING, ECONOMIZER, AND CONTINUOUS FAN OPERATION. COORDINATE WITH SCHOOL DISTRICT TO PROGRAM THERMOSTATS FOR OCCUPIED SCHEDULE HOURS.

BUILDING KEY

(DSA STAMP AREA)

BID SET 11-05-2021

CEG JOB NO: 21131

CYPRESS Engineering Group

HVAC, Plumbing, Fire Protection
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BUILDING J - DEMOLITION & NEW ROOF PLANS - MECHANICAL & PLUMBING

REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
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PLEASANTON UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

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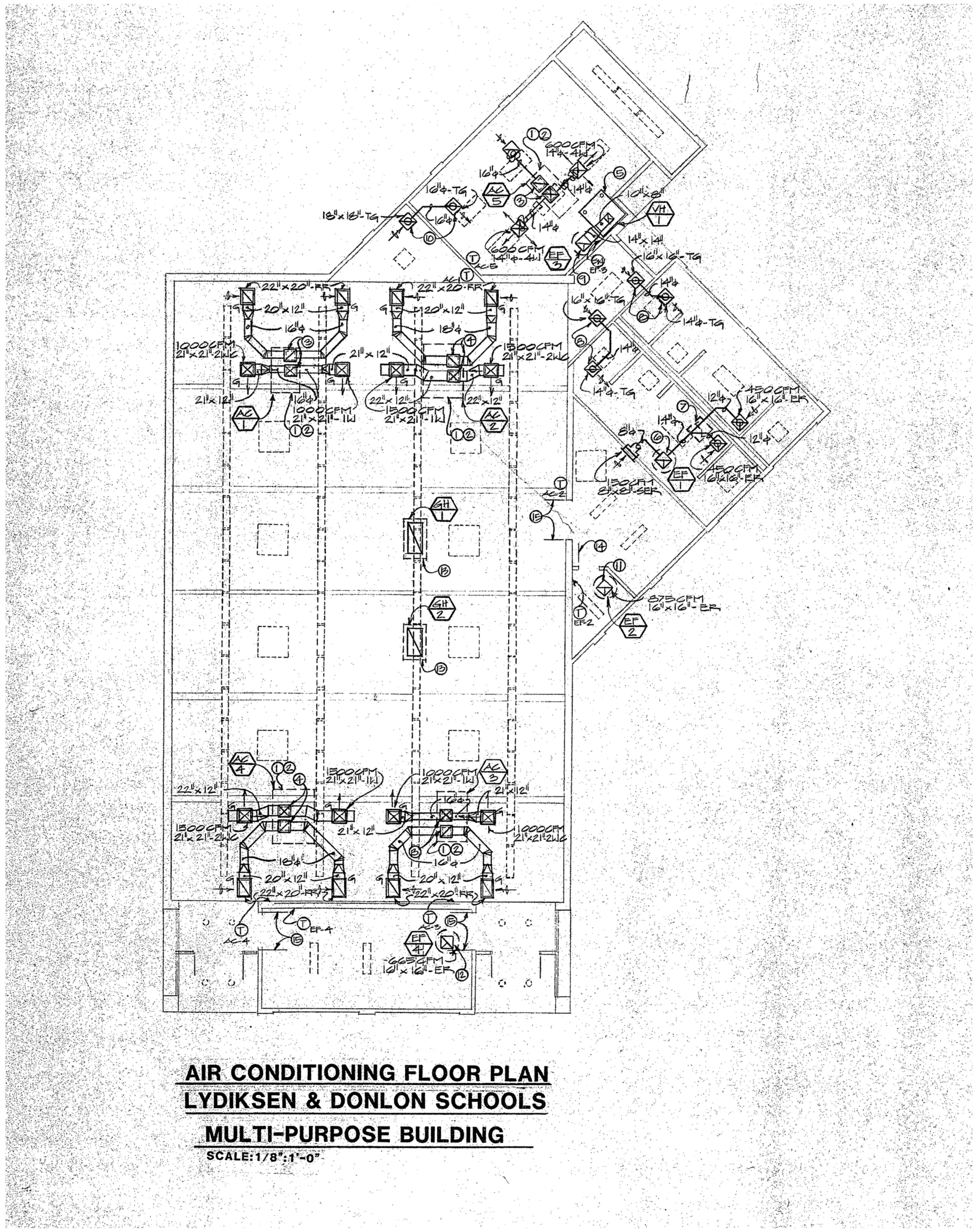
SFA JOB NO: 20085	DATE: 11/05/2021

MP3.1

GENERAL NOTES

1. EXISTING FLOOR PLANS FROM RECORD DRAWINGS SHOWN FOR REFERENCE ONLY.
2. ADJUST AND BALANCE AIR FLOW TO CFMS SHOWN ON AIR BALANCE SCHEDULE FOR EACH BUILDING.



1 / MP7.1 BUILDING J - MECHANCIAL / TAB WORK
SCALE: 1/8" = 1'-0"

AIR BALANCE SCHEDULE - MPR BLDG

UNIT NUMBER	LOCATION SERVED	SUPPLY CFM	RETURN CFM
AC-1	MPR BLDG	2400	#
AC-2	MPR BLDG	2400	#
AC-3	MPR BLDG	2400	#
AC-4	MPR BLDG	2400	#
AC-5	MPR BLDG	1200	#

(DSA STAMP AREA)

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REGISTERED PROFESSIONAL ENGINEER
No. M31059
EXP. JUNE 30, 2023
MECHANICAL
STATE OF CALIFORNIA
BID SET
11-05-2021

CEG JOB NO: 21131
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BLDG MPR-
MECHANCIAL / TAB WORK

REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588
PLEASANTON UNIFIED SCHOOL DISTRICT

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MP7.1

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

Project Name:	Roofing and HVAC Replacement Lydiksen Elementary School	Report Page:	Page 1 of 11
Project Address:	7700 Highland Oaks Dr Pleasanton, CA 94588	Date Prepared:	2021-11-03

A. GENERAL INFORMATION

01	Project Location (city)	Pleasanton	04	Total Conditioned Floor Area	
02	Climate Zone	12	05	Total Unconditioned Floor Area	
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	

☐ Office (B)	☐ Retail (M)	☐ Non-refrigerated Warehouse (S)
☐ Hotel/ Motel Guest Rooms (R-1)	☑ School (E)	☐ Healthcare Facility (I)
☐ High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☐ Other (Write In):

[1] 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 §140.4, 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
☑ Heating Air System	☐ Water Economizer	☑ Air Economizer
☑ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ Hydronic System Piping	☐ Fan Systems
☑ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☑ Ductwork (existing to remain, altered or new)
	☐ Chillers	☑ Ventilation
	☐ Boilers	☐ 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	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	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		AND	Yes	AND		COMPLIES
														Mandatory Measures Compliance (See Table Q for Details)	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

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 O 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(k) 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
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 & Title 20	Smallest Size Available[1] §140.4(a)	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 excepted.
[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

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
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency
AC	<65,000				0.8	SEER	13	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	Economizer:[1]	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 Power Pressure Drop Adjustment - Table 140.4-B	
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Device	Design Airflow through Device (CFM)
AC	Supply	1	1,800	BHP	1.05	None used	
						Calculated Adjustment (in H_2O)	

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.

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(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft^2)	Thermostats §110.2(b) & (c)[1], §120.2(a) or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	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 ft^2	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(f)

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(e)3B 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 airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

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

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system.
[2] Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air 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(e)3 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 250ft^2 or smaller, multipurpose rooms less than 1,000ft^2, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted 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(l) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct system(s):			Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilites.		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.		
14	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:		
		☐ Outdoors		
		☐ 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)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawlspace		
		☐ 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

Table Continued

17		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/NRCI/

YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector Pass	Field Inspector Fail
●		NRCI-MCH-01-E - Must be submitted for all buildings.		☐	☐

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/NRCA/

YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector Pass	Field Inspector Fail
●	○	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.*		☐	☐
●	○	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".*		☐	☐
○	●	NRCA-MCH-04-A Air Distribution Duct Leakage		☐	☐
●	○	NRCA-MCH-05-A Air Economizer Controls		☐	☐
●	○	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.		☐	☐
○	●	NRCA-MCH-07-A Supply Fan Variable Flow Controls		☐	☐
○	●	NRCA-MCH-08-A Valve Leakage Test		☐	☐
○	●	NRCA-MCH-09-A Supply Water Temperature Reset Controls		☐	☐
○	●	NRCA-MCH-10-A Hydronic System Variable Flow Controls		☐	☐
○	●	NRCA-MCH-11-A Automatic Demand Shed Controls		☐	☐

●	○	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		☐	☐
○	●	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance		☐	☐
○	●	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".*		☐	☐
○	●	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, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".*		☐	☐
○	●	NRCA-MCH-16-A Supply Air Temperature Reset Controls		☐	☐
○	●	NRCA-MCH-17-A Condenser Water Temperature Reset Controls		☐	☐
○	●	NRCA-MCH-18 Energy Management Control Systems		☐	☐
○	●	NRCA-MCH-19 Occupancy Sensor Controls		☐	☐
○	●	NRCA-MCH-20 Multi-Family Ventilation		☐	☐
○	●	NRCA-MCH-21 Multi-Family Envelope Leakage		☐	☐

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/NRCV/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
○	●	NRCV-MCH-04-H Duct Leakage Test *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-24 Enclosure Air Leakage Worksheet *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-27 High-rise Residential *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-32 Local Mechanical Exhaust *NOTE: Must be completed by a HERS Rater*	☐	☐

(DSA STAMP AREA)

SFA
SUGIMURA FINNEY ARCHITECTS

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

CEG JOB NO.: 21131
CYPRESS Engineering Group
HVAC, Plumbing, Fire Protection, Building Commissioning, Industrial Refrigeration, Environmental Compliance, Training & Technical Support
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseng.com

TITLE 24 FORMS - MECHANICAL

REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588
PLEASANTON UNIFIED SCHOOL DISTRICT

REVISIONS		
NO.	ITEM	DATE

DRAWN BY:	CAD
CHECKED BY:	CS
SFA JOB NO:	DATE:
20085	11/05/2021

MP8.1

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

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Roofing and HVAC Replacement Lydiksen Elementary School		Report Page: Page 10 of 11
Project Address: 7700 Highland Oaks Dr Pleasanton, CA 94588		Date Prepared: 2021-11-03

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
		Plan sheet or construction document location
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	MP0.2
Cooling Equipment Efficiency per §110.1	MP0.2
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

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

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Roofing and HVAC Replacement Lydiksen Elementary School		Report Page: Page 11 of 11
Project Address: 7700 Highland Oaks Dr Pleasanton, CA 94588		Date Prepared: 2021-11-03

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:	
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

(DSA STAMP AREA)

SUGIMURA FINNEY ARCHITECTS
SFA
2195 SOUTH BASCOM AVE.
SUITE 150
CAMPBELL, CA 95008
PHONE: 408.879.6699
FAX: 408.377.6690

REGISTERED PROFESSIONAL ENGINEER
METIN SERTTUNC
No. M31059
MECHANICAL
STATE OF CALIFORNIA

BID SET
11-05-2021

CEG JOB NO: 21131

CYPRESS Engineering Group
HVAC, Plumbing, Fire Protection
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Industrial Refrigeration
Environmental Compliance
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cypresseg.com

TITLE 24 FORMS - PLUMBING

REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588
PLEASANTON UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

DRAWN BY:	CAD
CHECKED BY:	CS
SFA JOB NO:	DATE:
20085	11/05/2021

MP8.2

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
3. 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.
4. 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.
5. 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.
6. 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.
7. CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
8. 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.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
10. 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.
11. 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.
12. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS NOT ALLOWED.
13. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
14. CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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 MULLIONS, 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.

ELECTRICAL SYMBOLS & ABBREVIATIONS

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

- SECURITY DOOR CONTACTS
- MD — SECURITY MOTION DETECTOR
- SC — CCTV CAMERA
- KP — SECURITY SYSTEM KEYPAD
- DOOR BELL PUSHBUTTON
- CH — DOOR CHIME WITH LED
- RECEPTACLE - DUPLEX ★
- DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- GFCI CONVENIENCE RECEPTACLE - DUPLEX★
- GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- RECEPTACLE DOUBLE DUPLEX★
- HALF SWITCHED DUPLEX RECEPTACLE ★
- SINGLE RECEPTACLE★
- DUPLEX RECEPTACLE - CEILING MOUNTED
- HC — LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE ★
- C — LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE ★
- FLOOR MOUNTED DUPLEX RECEPTACLE
- FLOOR MOUNTED BOX
- POWER OUTLET - SEE PLANS FOR NEMA TYPE★
- POWER POLE
- WALL TELEPHONE OUTLET★★
- [#] — VOICE/DATA WALL OUTLET★
- [#] — VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- [#] — SURFACE MOUNTED VOICE/DATA WALL OUTLET ★
- [#] — SURFACE MOUNTED VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED
- WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT
- [#] — VOICE/DATA OUTLET - FLOOR MOUNTED
- TV OUTLET ★
- [#] — VOICE/DATA OUTLET - CEILING MOUNTED
- S — INTERIOR SPEAKERS CEILING MOUNTED
- S — INTERIOR SPEAKERS WALL MOUNTED
- C — CLOCK +8'-0" AFF U.O.N. VERIFY BEFORE INSTALLATION

- PANELBOARD - FLUSH MOUNTED
- EQUIPMENT PANEL - FLUSH MOUNTED
- PANELBOARD - SURFACE MOUNTED
- EQUIPMENT PANEL - SURFACE MOUNTED
- M — METER W/ CURRENT TRANSFORMER
- J/J — JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES
- MOTOR CONNECTION
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH; FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFGR'S NAMEPLATE DATA
- COMBINATION STARTER/FUSED DISCONNECT SWITCH; FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFGRS NAMEPLATE DATA
- MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED
- CIRCUIT BREAKER
- GROUND ROD WITH GROUNDWELL BOX
- GROUND ELECTRODE
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- TRANSFORMER - SEE SINGLE LINE FOR SIZE
- PULLBOX
- FLEX CONDUIT WITH CONNECTION
- CONDUIT - UP
- CONDUIT - DOWN
- SURFACE METAL OR NON-METALLIC RACEWAY
- CONDUIT - EXISTING
- CONDUIT - CONCEALED IN WALLS OR CEILING
- CONDUIT - BELOW SLAB OR UNDERGROUND: 3/4"MIN.
- CAPPED OR STUB-OUT CONDUIT
- CONDUIT CONTINUATION
- CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. AS INDICATED. #10 — RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG.
- 2 — SHEET NOTE REFERENCE SYMBOL: SEE ASSOCIATED NOTE ON SAME SHEET
- 3 — SCHEDULE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET

- 2 — DETAIL NOTE REFERENCE SYMBOL SEE ASSOCIATED NOTE ON SAME DETAIL
- F301 — FEEDER DESIGNATION; SEE ASSOCIATED NOTE ON SAME DETAIL
- 1 / E3.0 — DETAIL NUMBER; DETAIL OR SECTION REFERENCE; SHEET NUMBER
- 1 / 2 — INDICATES QUANTITY OF TELEPHONE OUTLETS; INDICATES QUANTITY OF DATA OUTLETS

ABBREVIATIONS

A	AMPERE	GFCI	GROUND FAULT	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	GFI	INTERRUPTING	OAH	OVERALL HEIGHT
ALUM/AL	ALUMINUM	GND, G	GROUND	OC	ON CENTER
ARCH	ARCHITECT	GRS	GALVANIZED RIGID STEEL	OH	OVERHEAD
AWG	AMERICAN WIRE GAUGE	HT	HEIGHT	PA	PUBLIC ADDRESS
BKR	BREAKER	IC	INTERCOM	PB	PULL BOX
C	CONDUIT	IDF	INTERMEDIATE DISTRIBUTION FRAME	PF	POWER FACTOR
CATV	CABLE TV	INCAND	INCANDESCENT	PH	PHASE
CB	CIRCUIT BREAKER	JB	JUNCTION BOX	PIR	PASSIVE INFRARED
CCTV	CLOSED CIRCUIT TV	KV	KILOVOLT	PNL	PANEL
CKT	CIRCUIT	KVA	KILOVOLT AMPERES	PV	PHOTOVOLTAIC
CL	CENTER LINE	KW	KILOWATT	PVC	POLYVINYL CHLORIDE
CLG	CEILING	LCP	LIGHTING CONTROL PANEL	PWR	POWER
C.O.	CONDUIT ONLY	LTG	LIGHTING	(R)	RELOCATE
CTR	CENTER	LV	LOW VOLTAGE	(RP)	REMOVABLE POLE
D	DIMMER	KCM	THOUSAND CIRCULAR MILS	RECPTS	RECEPTACLES
DIM	DIMENSION	M.B.	MAIN CIRCUIT BREAKER	REQD	REQUIRED
DIST	DISTRIBUTION	MCA	MINIMUM CIRCUIT AMPS	REQMT'S	REQUIREMENT(S)
(E)	EXISTING	MDF	MAIN DISTRIBUTION FRAME	SHT	SHEET
EC	ELECTRICAL CONTRACTOR	MECH	MECHANICAL	SLD	SINGLE LINE DIAGRAM
(EL)	EVENING LIGHT	MH	METAL HALIDE	STC	SYSTEMS TERMINATION CABINET
EM	EMERGENCY	MLO	MAIN LUGS ONLY	SW	SWITCH
EMT	ELECTRICAL METALLIC TUBING	MPOE	MAIN POINT OF ENTRANCE	SWBD	SWITCHBOARD
EQUIP	EQUIPMENT	MTD	MOUNTED	TTB	TELEPHONE TERMINAL BACKBOARD
EV	ELECTRICAL VEHICLE	MTG	MOUNTING	TYP	TYPICAL
FA	FIRE ALARM	MOCP	MAXIMUM OVER CURRENT PROTECTION	UON	UNLESS OTHERWISE NOTED
FACP	FIRE ALARM CONTROL PANEL	(N)	NEW	UG	UNDERGROUND
FC	FOOT CANDLE	NIC	NOT IN CONTRACT	V	VOLT
FIN	FINISH	NIEC	NOT IN ELECTRICAL CONTRACT	VD	VOLTAGE DROP
FL	FLOOR	(NL)	NIGHT LIGHT	W	WATT
FLA	FULL LOAD AMPS	NO. NOM	NUMBER NOMINAL	W/	WITH
FLUOR	FLUORESCENT			WP	WEATHERPROOF
(F)	FUTURE			XFMR	TRANSFORMER
GC	GENERAL CONTRACTOR				

★ +15" A.F.F. TO BOTTOM OF BOX, U.O.N.
★★ +48" A.F.F. TO TOP OF BOX, U.O.N.
[#] NUMBER IN BRACKETS DENOTES NUMBER OF CABLE DROPS WHEN MORE THAN (2).

GENERAL DEMOLITION NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.

B. REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE PLANS AND AS REQUIRED BY THESE DEMOLITION NOTES.

C. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN EXISTING REMAINING WALLS MAY BE ABANDONED IN PLACE. REMOVE WIRING FROM CONDUIT.

D. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED.

E. WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK TO LAST ACTIVE REMAINING OUTLET, DEVICE, FIXTURE OR PANEL.

F. 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.

G. ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND MATERIAL.

H. NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.

I. EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.

J. 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.

K. 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.

L. 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.

M. 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.

N. 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.

EQUIPMENT ANCHORAGE

M/E/P COMPONENT ANCHORAGE NOTES:

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

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

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

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

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

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

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PRE-APPROVED INSTALLATION GUIDE (e.g. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ■ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP ☐ MD ☐ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #_____.

APPLICABLE CODES & STANDARDS

CODES:

1. 2019 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
2. 2019 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
3. 2019 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
4. 2019 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.
5. 2019 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
6. 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
7. 2019 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
8. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
9. 2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
11. NATIONAL FIRE ALARM CODE (NFPA 72) 2016.

STANDARDS:

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

SHEET INDEX

(DSA STAMP AREA)

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LICENSED ARCHITECT — MARK C. FINNEY — NO. C-24673 — REN. 9-30-23 — STATE OF CALIFORNIA

BID SET — NOT FOR CONSTRUCTION — MARK C. FINNEY — NO. C-24673 — REN. 9-30-23 — ELECTRICAL — STATE OF CALIFORNIA

AURUM CONSULTING ENGINEERS MONTEREY BAY, INC.

Project No. 21-419.00

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

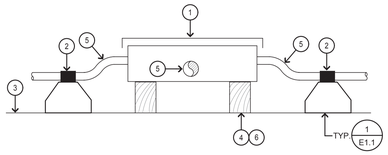
REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588
PLEASANTON UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
1		

DRAWN BY: FS
CHECKED BY: NA
SFA JOB NO: 20085
DATE: 11/05/2021

E0.1

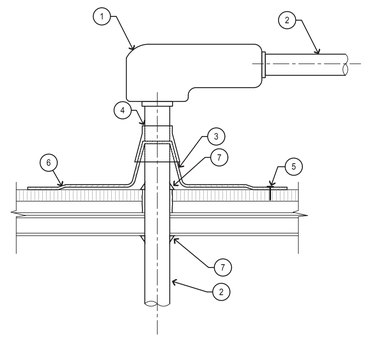


DETAIL NOTES:

1 PULLCAN, NEMA 4 LOCKABLE.
2 CONDUIT STRAP.
3 FINISHED ROOF.
4 4 x 4 SLEEPER, SET IN MASTIC.
5 RIGID STEEL CONDUITS.
6 PRESSURE TREATED LUMBER.

3 PULLCAN AT ROOF DETAIL

NO SCALE

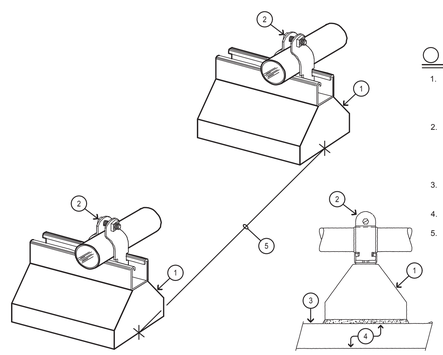


DETAIL NOTES:

1. WEATHERPROOF CONDULET.
2. CONDUIT PER DRAWINGS.
3. PENETRATION FLASHING ("ROOF JACK") SET IN PREHEATED SURFACE.
4. 3" WIDE ELASTOMERIC FLASHING STRIP OR NON-HARDENING MASTIC.
5. STAGGERED NAILING.
6. MOPPED HOT TAR.
7. PROVIDE FIRE STOPPING MATERIAL SIMILAR TO U.L. FC 1002 REQUIREMENTS.

2 CONDUIT PENETRATION

NO SCALE



DETAIL NOTES:

1. ROOF TOP CONDUIT SUPPORT; 5" x 6" x 9.5" WITH 1" HIGH 14 GA. GALVANIZED CHANNEL STRUT. COOPER B-LINE "DB" SERIES.
2. 14 GA. RIGID CONDUIT CLAMP WITH RECESS HEX HEAD MACHINE SCREW AND SQUARE NUT COMBINATION. COPPER B-LINE B200 SERIES.
3. CLEAN (E) ROOF AREA AS REQUIRED.
4. ROOF STRUCTURE.
5. PROVIDE AND INSTALL CONDUIT SUPPORT PER CEC REQUIREMENTS.

1 ROOF MOUNTED CONDUIT SUPPORT DETAIL

NO SCALE

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ELECTRICAL DETAILS

REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588
PLEASANTON UNIFIED SCHOOL DISTRICT

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SFA JOB NO: 20085	DATE: 11/05/2021

E1.1

CAPEWOOD PLACE

HIGHLAND OAKS DRIVE

PARKING LOT - B
DSA# 01-117885

2 E3.1 | 1 E3.1

GATE

MULTIPURPOSE BUILDING J
DSA# 55285

SHADE STRUCTURE
DSA# 01-117885

CLASSROOM BUILDING A
DSA# 01-117885

PARKING LOT - A
DSA# 28010

ADMIN BUILDING H
DSA# 01-117885

CAMPUS CENTER BUILDING G
DSA# 01-117885

CLASSROOM BUILDING B
DSA# 01-117885

BLDG. "F"
KINDERGARTEN & TK

CLASSROOM BUILDING E
DSA# 01-106905

SCALE: 1"=20'-0"

NORTH

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ELECTRICAL SITE PLAN

REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588
PLEASANTON UNIFIED SCHOOL DISTRICT

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1		

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20085	11/05/2021

E2.1

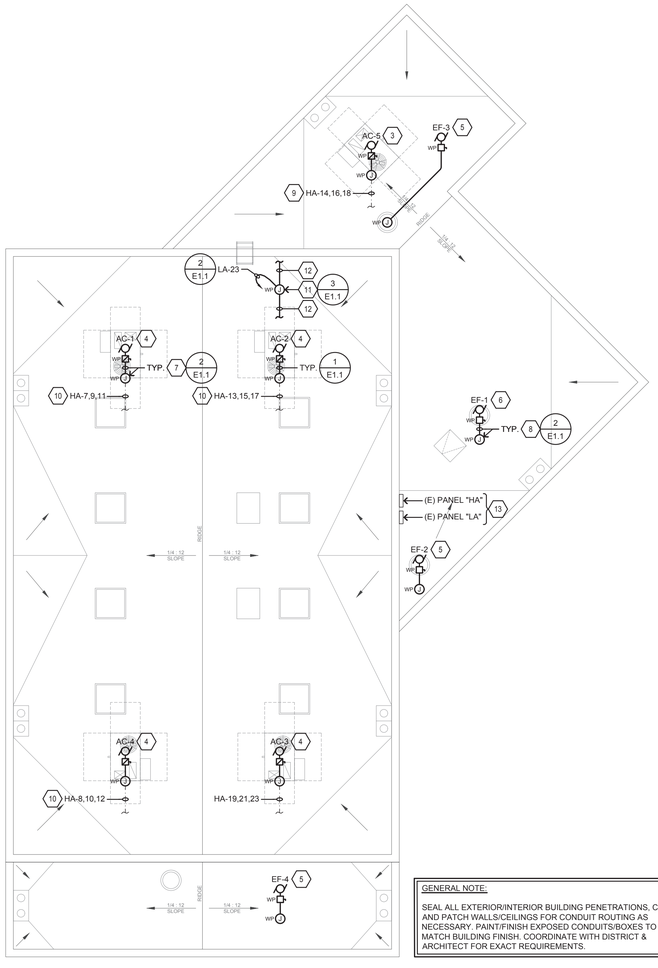
BRANCH CIRCUIT CONDUCTOR SIZING TABLE

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.

SHEET NOTES

1. DEMOLISH EXISTING MECHANICAL UNIT AND ASSOCIATED BREAKER AT PANEL PER GENERAL DEMOLITION NOTES ON SHEET E0.1. CONTRACTOR SHALL CUT BACK FEEDER CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE AND PRESERVE FOR CONNECTION OF NEW MECHANICAL UNIT UNDER NEW WORK; SEE 2/E3.1 FOR NEW WORK.
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 FOR CONNECTION OF NEW MECHANICAL UNIT UNDER NEW WORK; SEE 2/E3.1 FOR NEW WORK.
3. AIR CONDITIONING UNIT; 12 MCA, 480V, 3Ø.
4. AIR CONDITIONING UNIT; 17 MCA, 480V, 3Ø.
5. EXHAUST FAN; 1/4 HP, 120V, 1Ø. CONNECT VIA EXISTING LIGHTING CONTROLS.
6. EXHAUST FAN; 1/2 HP, 120V, 1Ø. CONNECT VIA EXISTING LIGHTING CONTROLS.
7. CONTRACTOR SHALL INTERCEPT EXISTING FEEDER CONDUIT PRESERVED DURING DEMOLITION WORK WITH JUNCTION BOX AT ACCESSIBLE CEILING SPACE AND SPLICE AND EXTEND WITH ½"C., 3 #10 & 1 #10 GND. TO NEW AIR CONDITIONING UNIT.
8. CONTRACTOR SHALL INTERCEPT EXISTING FEEDER CONDUIT PRESERVED DURING DEMOLITION WORK WITH JUNCTION BOX AT ACCESSIBLE CEILING SPACE AND SPLICE AND EXTEND WITH ½"C., 2 #10 & 1 #10 GND. TO NEW ROOF EXHAUST FAN.
9. PROVIDE AND INSTALL 15 AMP, 3-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE AT EXISTING PANEL; NEW BREAKER SHALL MATCH EXISTING IN RATING AND TYPE.
10. PROVIDE AND INSTALL 20 AMP, 3-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE AT EXISTING PANEL; NEW BREAKER SHALL MATCH EXISTING IN RATING AND TYPE.
11. CONTRACTOR SHALL PROVIDE AND INSTALL 8" SQ. X 4" DEEP NEMA 3R PULLCAN. CONTRACTOR SHALL INSTALL MINIMUM OF (2) AS NECESSARY TO NOT EXCEED 270 DEGREES OF CONDUIT BENDS.
12. CONNECT ALL CONVENIENCE RECEPTACLES FURNISHED WITH NEW AIR CONDITIONING UNITS; (10) RECEPTACLES MAX. PER 120V CIRCUIT.
13. LOCATED IN ELECTRICAL ROOM BELOW.

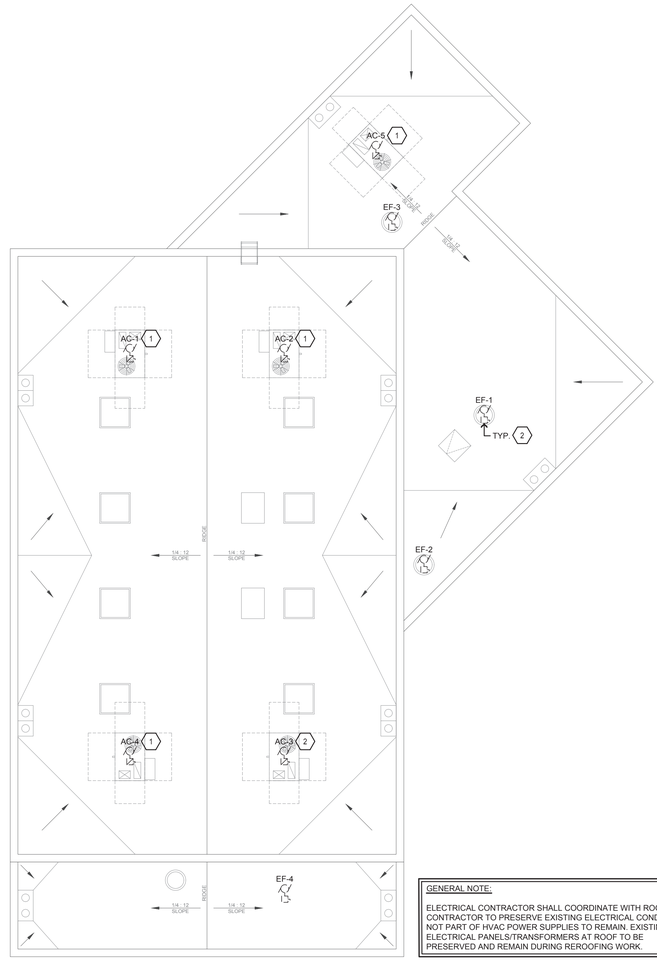


GENERAL NOTE:

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.

2 ELECTRICAL ROOF PLAN - BUILDING J

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



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.

1 ELECTRICAL DEMOLITION PLAN - BUILDING J

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

NORTH

(DSA STAMP AREA)

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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN 9-30-23
STATE OF CALIFORNIA

BID SET

AURUM CONSULTING ENGINEERS MONTEREY BAY, INC.

Project No. 21-419.00

60 Garden Court • Suite 210 • Monterey, CA 93940
T.831.646.3330 • F.831.646.3336 • www.acemb.com

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REROOFING AND HVAC REPLACEMENT
LYDIKSEN ELEMENTARY SCHOOL
7700 HIGHLAND OAKS DR., PLEASANTON, CA 94588
PLEASANTON UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
1		

DRAWN BY: FS
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SFA JOB NO: 20085
DATE: 11/05/2021

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