PROJECT NAME

- 1. THE ARCHITECT OR ENGINEER MAY FIND DEFECTS IN THE WORK AND IF THEY DO, THEY WILL NOTIFY THE CONTRACTOR SO THE ERROR MAY BE CORRECTED. UNDER NO CIRCUMSTANCES IS IT EVER THE INTENT FOR THE ARCHITECT OR ENGINEER TO BECOME A GUARANTOR OF THE CONTRACTOR'S PERFORMANCE BY THESE ACTIVITIES. THE FACT THAT A CONTRACTOR'S ERROR GOES UNDETECTED DURING THE VISIT TO THE SITE DOES NOT MAKE THE ARCHITECT OR ENGINEER NEGLIGENT: THE CONTRACTOR IS NEVER RELIEVED OF THE RESPONSIBILITY FOR THE DISCOVERY OF HIS OWN ERRORS AND THE CORRECTION OF THEM, NOR OF THE RESPONSIBILITY OF PROPERLY PERFORMING THE WORK.
- 2. THE ARCHITECT OR ENGINEER WILL MAKE VISITS TO THE JOB SITE TO OBSERVE THE PROGRESS OF THE WORK AND TO OBSERVE WHETHER OR NOT IT IS, IN GENERAL, BEING PERFORMED IN ACCORDANCE WITH THEIR PLANS AND SPECIFICATIONS. THIS DOES NOT IN ANY WAY MEAN THAT THE ARCHITECT OR ENGINEER IS A GUARANTOR OF THE CONTRACTOR'S WORK: RESPONSIBILITY FOR SAFETY IN, ON OR ABOUT THE JOB SITE: IN CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, FORMS, OR OTHER WORK AIDS: OR SUPERINTENDING THE WORK.
- 3. DO NOT SCALE DRAWINGS. WORK TO THE DIMENSIONS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL VERIFY THE DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOR PROMPT CLARIFICATION.
- 4. THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES INDICATED OR NOT ON THE DRAWING ARE OBTAINED BY SEARCH OF AVAILABLE RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATIONS OF THE UTILITIES WITH SCHOOL DISTRICT MAINTENANCE AND OPERATION PERSONNEL. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES AND OTHER STRUCTURES. ANY DAMAGE SHALL BE PROMPTLY RESTORED TO THE SCHOOL DISTRICT'S SATISFACTION.
- PROVIDE CONSTRUCTION BARRICADES AS REQUIRED TO PROTECT PUBLIC'S HEALTH AND SAFETY INCLUDING WORK UNDER CONSTRUCTION TO THE REQUIREMENTS OF THE SCHOOL DISTRICT. COVER OPEN TRENCHES WITH SOLID MATERIAL.
- 6. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY AND STRUCTURES. ANY DAMAGE SHALL BE PROMPTLY RESTORED TO THE SATISFACTION OF THE OWNER/ARCHITECT, AT CONTRACTOR'S EXPENSE.
- 7. BIDDERS REQUIRED TO LOOK AT ALL DRAWINGS AND SPECS, NOT JUST THOSE SHEETS OR SECTIONS RESPECTIVE OF THEIR TRADE.
- 8. A PROJECT INSPECTOR SHALL BE RETAINED BY THE OWNER. THE INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK AS DESCRIBED IN TITLE 24, PART 1, CALIFORNIA CODE OF REGULATIONS. WORK SHALL NOT COMMENCE WITHOUT THE PRESENCE OF THE INSPECTOR. DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 C.C.R; CLASS 1.
- 9. UNLESS SPECIFIED ON STRUCTURAL OR ARCHITECTURAL DRAWINGS, ANY ALTERATIONS OR MODIFICATIONS TO A STRUCTURAL ELEMENT BY CUTTING, DRILLING, BORING, BRACING, WELDING, ETC. SHALL HAVE WRITTEN APPROVAL BY STRUCTURAL ENGINEER OF RECORD AND DSA PRIOR TO START OF WORK.
- 10. ALL DETAILS CONTAINED IN THESE CONSTRUCTION DOCUMENTS ARE PART OF THE CONSTRUCTION SCOPE REGARDLESS OF THEM BEING REFERENCED IN THE SET.
- 12. SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33
- 12. DURING CONSTRUCTION, TITLE 24, PART 1-5 OF CBC 2016 MUST BE KEPT ON SITE.
- 13. ALL WORK SHALL COMPLY TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
- 14. 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, SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

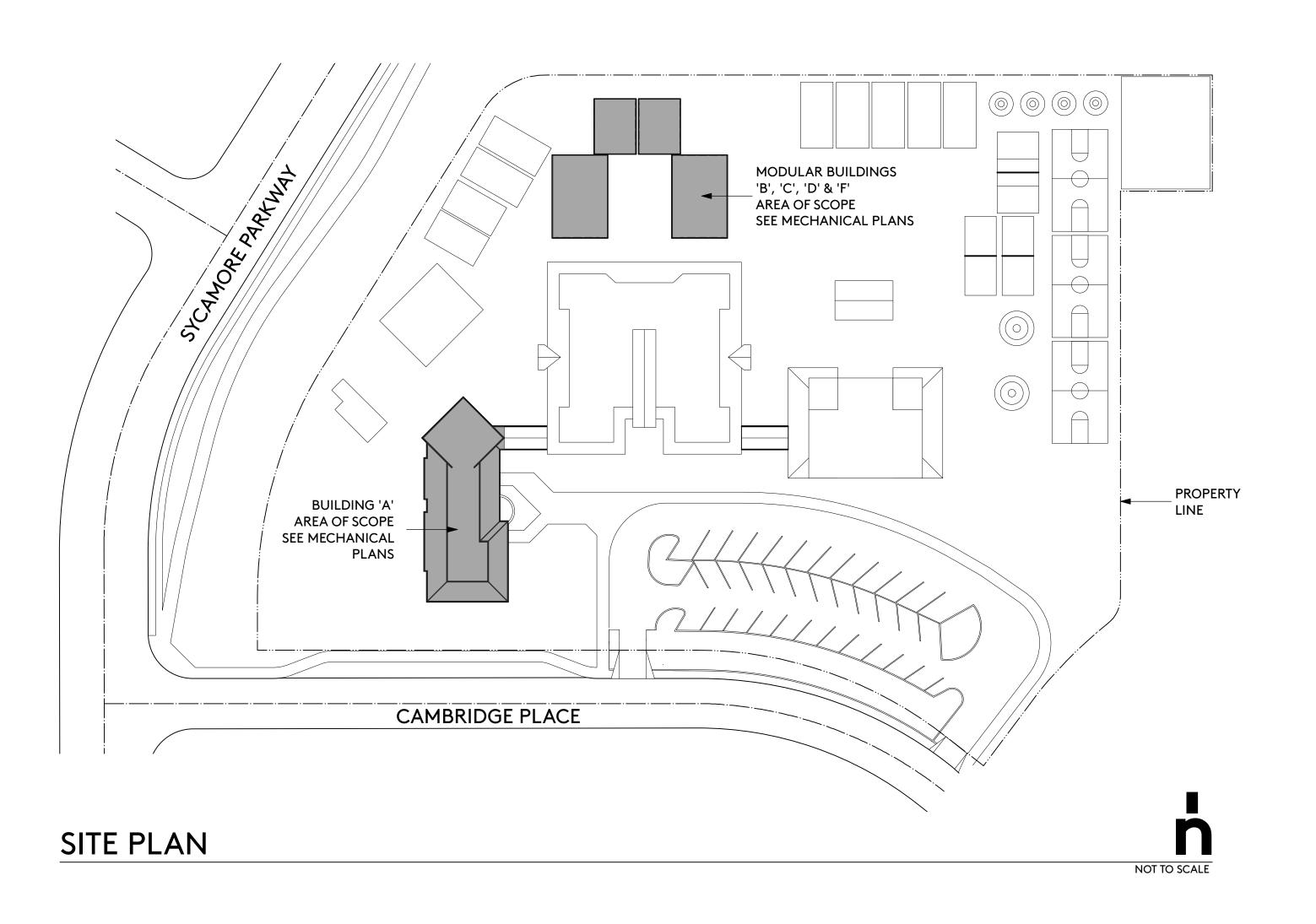
(REFERENCE: SECTION 4-317 (c), CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR))

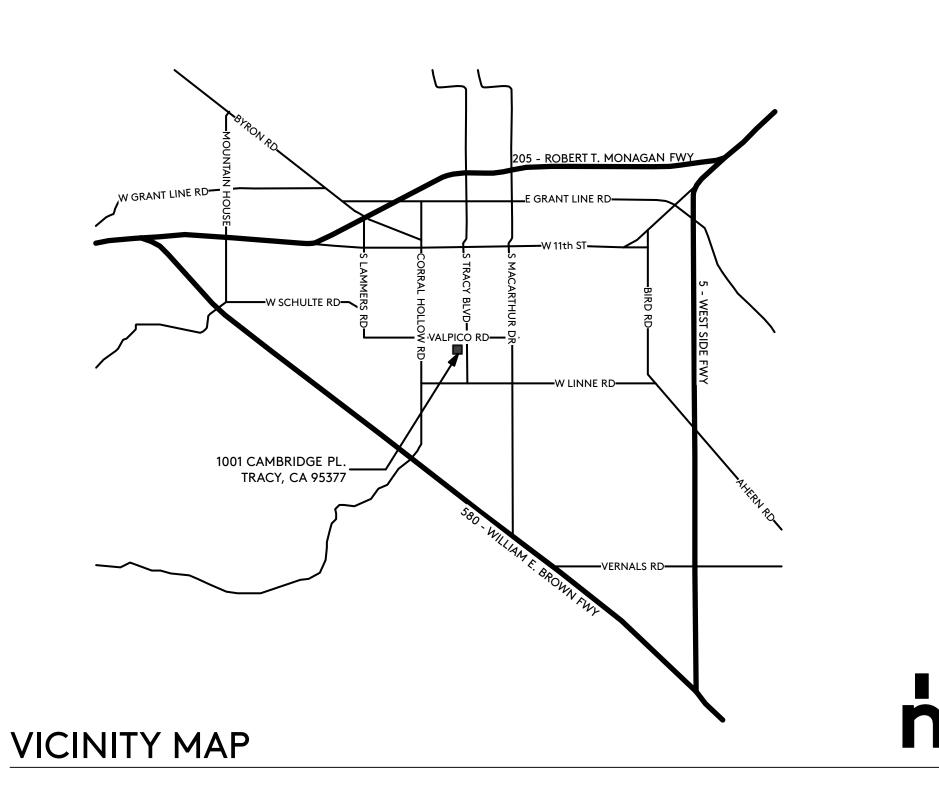
GENERAL NOTES

THIS CONSTRUCTION PACKAGE INCLUDES, BUT NOT LIMITED TO THE FOLLOWING:

REPLACEMENT OF (10) EXISTING ROOF-TOP PACKAGED A/C UNITS. (4) IN BUILDING 'A' AND (6) IN MODULAR BUILDINGS 'B, C, D & F'. THE NEW HIGH-EFFICIENCY A/C UNITS WILL BE OF IDENTICAL CAPACITIES AS EXISTING, THUS NOT REQUIRING CHANGES TO EXISTING CURBS AND INFRASTRUCTURE.

BRIEF PROJECT SCOPE





JEFFERSON SCHOOL DISTRICT
1219 WHISPERING WIND DRIVE

(T) 209.836.3388

(F) 209.836.2930

TRACY, CA. 95377

OWNER

SUPERINTENDENT

JAMES BRIDGES, Ed. D.

PETE CARLSON

BRIAN JACKMAN

PHIL RAYA

2012 Edition

BOARD OF EDUCATION

DAN WELLS

DEBBIE WINGO

California Administrative Code (CAC), Part 1, Title 24 CCR*

2016 California Building Code (CBC), Part 2, Title 24 CCR (2015 International Building Code, Vol. 1 & 2, and 2016 California amendments)

California Electrical Code (CEC), Part 3, Title 24 CCR (2014 National Electrical Code and 2016 California Amendments)

California Mechanical Code (CMC), Part 4, Title 24 CCR (2015 IAPMO Uniform Mechanical Code and 2016 California amendments)

O16 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2015 IAPMO Uniform Plumbing Code and 2016
California amendments)

2016 California Energy Code (CEC), Part 6, Title 24 CCR
 2016 California Fire Code (CFC), Part 9, Title 24 CCR
 (2015 International Fire Code and 2016 California

Amendments)

California Existing Building Code (CEBC), Part 10, Title 24 CCR (2015 International Existing Building Code and 2016 California Amendments)

California Green Building Standards Code (CALGreen),
Part 11, Title 24 CCR

APPLICABLE CODES

Title 19 CCR, Public Safety, State Fire Marshal Regulations

ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators

California Referenced Standards Code, Part 12, Title 24 CCR

2016 Edition (CA amended) Standard for the installation of Standpipe and 2013 Edition Hose Systems Standard for Dry Chemical Extinguishing Systems 2013 Edition Standard for Wet Chemical Extinguishing Systems 2013 Edition Standard for the installation of stationary Pumps 2016 Edition 2013 Edition Standard for Water Tanks for Private Fire Protection Standard for the Installation of Private Fire Service Mains and Their Appurtenances 2016 Edition National Fire Alarm and Signaling Code (CA amended); 2016 Edition Standard for Fire Doors and Other Opening Protectives 2016 Edition Standard on Clean Agent Fire Extinguishing Systems, NFPA 2001 ncluding Accessories 2015 Edition Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment 2005 (R2010) Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories 2003 Edition Standard for Heat Detectors for Fire Protective Signaling 1999 Edition Standard for Signaling Devices for the Hearing Impaired

Standard for the Installation of Sprinkler Systems

For a complete list of applicable NFPA standards refer to 2016 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code, Chapter 35, for State of California amendments to the NFPA Standards.

Standard for Bleachers, Folding and Telescopic Seating,

and Grandstands

*All parts of the 2016 California Building Code become effective January 1, 2017 except the effective date for the use of the 2016 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is Februaury 25, 2016 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 20, 2016.

PJHM ARCHITECTS, INC.

IN ORANGE COUNTY

24461 RIDGE ROUTE DRIVE #100 LAGUNA HILLS, CA 92653

(T) 949.496.6191

(F) 949.496.0269

IN LOS ANGELES COUNTY

837 TRACTION AVE #410 LOS ANGELES, CA 90013

(T) 213.278.0172 (F) 213.325.7648

ARCHITECT

PLUMBING / MECHANICAL

(T) 949.417.3903

(F) 949.419.1393

POCOCK DESIGN
SOLUTIONS
14551 CHAMBER ROAD, SUITE 210
TUSTIN, CA 92780

ENGINEERING CONSULTANTS

ARCHITECTURAL

CS COVER SHEET AND SITE PLAN

MECHANICAL

MECHANICAL NOTES, SCHEDULES, AND DETAILS

MD-5.1 MECHANICAL DEMO ROOF PLAN - UNIT 'A'
MD-5.2 MECHANICAL DEMO ROOF PLAN - MODULAR UNITS 'B', 'C', 'D' & 'F'

M-5.1 MECHANICAL ROOF PLAN - UNIT 'A'
M-5.2 MECHANICAL ROOF PLAN - MODULAR UNITS 'B', 'C', 'D' & 'F'

I-6.1 MECHANICAL ROOF PLAN - MODO I-6.1 MECHANICAL TITLE 24 FORMS

SCHEDULE OF DRAWINGS

TOTAL SHEETS: 7

IN SAN DIEGO COUNTY

804 PIER VIEW WAY #103

OCEANSIDE, CA 92054

(T) 760.730.5527

(F) 760.730.562

S

LEGEND

DESCRIPTION

SUPPLY AIR RISER

RETURN AIR RISER

EXHAUST AIR RISER

SUPPLY AIR GRILLE

RETURN AIR GRILLE

EXHAUST AIR GRILLE

SIDEWALL REGISTER

FLEXIBLE CONNECTION

FLEXIBLE CONNECTION

NEW DUCT (SEE PLAN)

DEMO DUCT (SEE PLAN)

BACKDRAFT DAMPER

FIRE DAMPER

DOOR LOUVER

MANUAL VOLUME DAMPER

SMOKE / FIRE DAMPER

UNDERCUT DOOR 3/4"

REFRIGERANT SUCTION LINE

REFRIGERANT LIQUID LINE

CONDENSATE DRAIN

POINT OF CONNECTION

TEMPERATURE SENSOR

HOT-WATER RETURN

HOT-WATER SUPPLY

INSIDE DIAMETER

OUTSIDE DIAMETER

STAINLESS STEEL

VENT THRU ROOF

GENERAL CONTRACTOR

ENERGY MANAGEMENT SYSTEM

OPPOSED BLADE DAMPER

FAN SPEED CONTROL

SHEET METAL

PRESSURE DIFFERENTIAL SWITCH

OVERRIDE SWITCH

SMOKE DETECTOR

THERMOSTAT

HUMIDISTAT

SWITCH

ON CENTER

EXISTING DUCT (SEE PLAN)

LINED DUCTWORK

ABBR.

RAG

EAG

SWR

FD

CD

S.D.

P.O.C.

T-STAT

O.C.

O.D.

S/M

s/s

OBD

FSC

SYMBOL

-6((())**-**(-())

41+1+1+

S/F|— — —

F---

—___RS—__

——RL——

——CD——

6S)

STANDARDS DIVISION T-24. 2. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBILE TO COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID - NO

3. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.

4. NOT USED.

ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHER-PROOFED AND PAINTED TO MATCH, COORDINATE WITH ARCHITECT PRIOR TO

6. ALL DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE.

7. PRIOR TO OCCUPANCY, THE ENTIRE H.V.A.C. SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS BY AN INDEPENDANT AIR BALANCE CONTRACTOR. CERTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR FOR AIR AND HYDRONIC AS APPLICABLE. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING FRESH AIR VENTILATION. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, THE AIR BALANCE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO BALANCING OF SYSTEM. IF NOT THE AIR BALANCE CONTRACTOR SHALL BEAR ALL COSTS INCURRED FOR WORK THAT MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE THREE COPIES OF THE AIR BALANCE REPORT TO THE ARCHITECT FOR REVIEW AND APPROVAL.

B. FOR INACCESSIBLE AREAS THE CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE

1) HAND ACCESS: 12"x12"

AS FOLLOWS:

2) BODY ACCESS: 30"x30" MIN. WHERE A LARGER ACCESS SIZE IS REQUIRED DUE TO INSTALLATION CONSTRAINTS, THE CONTRACTOR SHALL DO SO AT NO ADDITIONAL COST AND SHALL NOTIFY THE ARCHITECT OF DEVIATIONS PRIOR TO INSTALLATION.

9. ALL EQUIPMENT, ACCESSORIES, AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES. AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

10. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE ARCHITECT'S

ALL EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH FLEXIBLE DUCT AND PIPE CONNECTIONS.

12. ALL HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH LATEST EFFICIENCY STANDARDS.

13. ALL FRESH AIR INTAKES SHALL MEET CODE REQUIRED CLEARANCES FROM EXHAUST. FLUE, FUEL BURNING APPLIANCE AND PLUMBING VENT OUTLETS. FOR GAS/ELECTRIC AIR CONDITIONING UNITS WHERE THE CODE REQUIRED CLEARANCES ARE NOT MET, A FACTORY FLUE GAS DEFLECTOR AND EXTENSION SHALL BE USED TO MINIMIZE THESE CLEARANCES. CONTRACTOR SHALL DETERMINE LOCATIONS WHERE REQUIRED PRIOR TO BID. THIS SHALL BE PROVIDED AT NO ADDITIONAL COST.

14. CONTRACTOR SHALL VERIFY ALL CLEARANCES AND AVAILIABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATING MATERIAL.

15. CONTRACTOR TO SUBMIT ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION DEVICES, AND OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.

16. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 35 DAYS OF AWARD OF CONTRACT. IF SHOP DRAWINGS ARE NOT PROVIDED TO THE ARCHITECT FOR APPROVAL, AND ANY CONFLICTS OCCUR BETWEEN TRADES, DURING CONSTRUCTION, & ETC. THEN THE CONTRACTOR SHALL BE RESPONSIBLE AND BEAR ALL COST INCURRED FOR ANY REVISIONS AT NO ADDITIONAL COST TO THE ARCHITECT. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY PRIOR TO FABRICATION AND INSTALLATION OF ANY CONFLICTS BETWEEN TRADES, DURING CONSTRUCTION, & ETC.

17. CONTRACTOR SHALL BE RESPONSIBLE FOR COMMISSIONING OF EQUIPMENT AS STIPULATED ON MECH-1-C FORM ON PLANS UNLESS NOTED OTHERWISE.

18. CONTROL SCHEMATICS ARE FOR SEQUENCE ONLY. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL ELECTRICAL DEVICES REQUIRED.

---- CONTROLS ----

19. ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LINE VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFIED IN THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF ALL GOVERNING BODIES HAVING JURISDICTION THEREOF.

20. ALL LOW VOLTAGE CONDUIT AND WIRING AS APPLICABLE, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AS INDICATED ON THE MECHANICAL DRAWINGS OR SPECIFIED IN THE MECHANICAL SECTION OF THE SPECIFICATIONS.

A1) ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT IN INACCESSIBLE AREAS.

A2) ALL LOW VOLTAGE WIRING SHALL BE PLENUM -RATED ABOVE ACCESSIBLE CEILINGS.

B) WHERE THE CONTROLS CONTRACTOR IS RETAINED BY THE OWNER, THEY SHALL BE RESPONSIBLE FOR THE FOLLOWING:

1) FURNISH AND INSTALL ALL DEVICES, WIRING, AND

FUNCTIONAL INSTALLATION. 2) COORDINATE ALL WORK AND REQUIREMENTS WITH OTHER TRADES INCLUDING GENERAL, MECHANICAL,

TERMINATIONS REQUIRED FOR A COMPLETE AND

AND ELECTRICAL CONTRACTORS. 3) CONTRACTOR SHALL FOLLOW ALL SUBMITTAL

REQUIREMENTS PER DRAWINGS AND SPECIFICATIONS. 21 ALL THERMOSTATS SHALL BE OF THE ELECTRONIC. PROGRAMMABLE, AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING OR COOLING. SET POINT RANGE SHALL BE 10 DEGREES F. BETWEEN FULL HEATING AND COOLING. THEY SHALL HAVE CAPABILITY OF

TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70 DEGREES F., AND COOLING AT A TEMPERATURE NOT LESS THAN 78 DEGREES F. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE 1- 1/2 DEGREES F. CONTROL LIMITS SHALL BE FROM 55 DEGREES F. TO 85 DEGREES F. MOUNT AT 48 INCHES ABOVE FLOOR OR AS REQUIRED BY LOCAL AUTHORITIES OR HANDICAP CODES.

NOTES: 1) THERMOSTATS THAT ARE PART OF AN ENERGY MANAGEMENT SYSTEM SHALL FOLLOW CONTROL SPECIFICATIONS AND DRAWING REQUIREMENTS.

2) SHOULD THE LOCATION OF THE THERMOSTAT NOT MEET THE ADA HEIGHT REQUIREMENTS DUE TO OBSTRUCTIONS. THEN AN ALTERNATE LOCATION SHALL BE PROPOSED OR REQUESTED BY THE CONTRACTOR THAT SHALL BE APPROVED BY THE ARCHITECT.

22. CONTROLS CONTRACTOR AND AIR BALANCE CONTRACTOR SHALL COORDINATE WORK AND PERFORM NECESSARY TASKS AS REQUIRED TO OBTAIN AIR AND WATER FLOW QUANTITIES FOR SYSTEMS SHOWN

23. CONTROLS SHALL BE PROVIDED TO PROVIDE THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY THE STATE ENERGY REGULATIONS.

---- AIR DISTRIBUTION ----

24. ALL DUCTWORK SHALL BE SHEET METAL CONSTRUCTED OR SPIRAL, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS. PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, CHAPTER 6 OF THE MECHANICAL CODE, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.

25. ALL FLEXIBLE DUCTWORK SHALL NOT EXCEED SEVEN FEET IN LENGTH TO RESPECTIVE DIFFUSERS, GRILLES, AND REGISTERS, OR OTHER AIR DEVICES.

26. PROVIDE SEISMIC RESTRAINTS TO ALL DUCTWORK. PIPE, AND EQUIPMENT SUPPORTS IN ACCORDANCE WITH THE LATEST SMACNA GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. SUSPENDED EQUIPMENT SHALL BE PROVIDED WITH SEISMIC ANCHORAGE AND ISOLATION SUPPORTS.

ALL DUCT TURNS IN RECTANGULAR SUPPLY, RETURN, AND EXHAUST DUCTS SHALL HAVE TURNING VANES

UNLESS OTHERWISE NOTED. 28. DUCTWORK HANDLING CONDITIONED AIR SHALL BE INSULATED OR LINED AS INDICATED ON DRAWINGS. SUPPLY AND RETURN DUCT INSULATION SHALL BE MIN. 1.5" THICK, 3/4 LB./CUBIC FT. DENSITY AND HAVE A MIN. VALUE OF R-8 WHERE LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES:

A) OUTDOORS, OR

B) IN A SPACE BETWEEN THE ROOF AND AN INSULATED CEILING, OR

C) IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES, OR

D) IN AN UNCONDITIONED CRAWLSPACE; OR E) IN OTHER UNCONDITIONED SPACES

PER 2016 CALIFORNIA ENERGY CODE. OTHERWISE PROVIDE R-4.2 WHEN LOCATED IN CONDITIONED ATTIC SPACES ABOVE CEILINGS . ALL DUCTWORK EXPOSED ON ROOF SHALL BE INTERNALLY LINED WITH 1.5" THICK, 1.5LB./CUBIC FT. DENSITY DUCT LINER UNLESS OTHERWISE INDICATED OR SPECIFIED. ALL DUCT SIZES ARE SHEET METAL SIZES. ALL DUCT JOINTS SHALL BE SEALED PER CHAPTER 6 MECHANICAL CODE REQUIREMENTS. PROVIDE PIPING AND DUCT INSULATION IN ACCORDANCE WITH THE LATEST STANDARDS OF THE CALIFORNIA ENERGY COMMISSION.

29. ALL INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50.

30. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS, AS WELL AS FRESH AIR INTAKE DUCTS. DAMPERS SHALL BE LOCATED AT THE BRANCH DUCT LOCATIONS. THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF DAMPERS WITH THE AIR BALANCE CONTRACTOR, SO THEY ARE ACCESSIBLE PRIOR TO INSTALLATION. IN LOCATIONS WHERE THESE DAMPERS ARE INACCESSIBLE, CABLE OPERATED ADJUSTMENT CONTROLS SHALL BE PROVIDED AT NO ADDITIONAL COST. OPPOSED BLADE DAMPERS SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE.

31. AUTOMATIC FIRE DAMPER REQUIREMENTS ARE AS FOLLOWS:

A) PROVIDE AUTOMATIC FIRE DAMPERS AT ALL PENETRATIONS OF FIRE-RATED CEILINGS AND WALLS THROUGHOUT. CONTRACTOR SHALL COORDINATE FIRE-RATED AREAS WITH THE ARCHITECTURAL DRAWINGS AND OTHER TRADES PRIOR TO INSTALL AND SHALL NOTIFY PERTINENT PARTIES PRIOR TO ANY WORK PERFORMED IN THESE AREAS. IN ADDITION, CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PROPER ACCESS FOR DAMPERS INSTALLED. THE DAMPER FIRE RATING SHALL BE COMPATIBLE WITH THE CEILING/WALL RATING.

B) LOCATION OF FIRE-RATED CEILINGS AND WALLS ARE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

C) FIRE AND/OR SMOKE DAMPER(S) SHALL BE PROVIDED AS REQUIRED BY THE LATEST CALIFORNIA BUILDING CODE. D) CONTRACTOR SHALL FURNISH FLUSH MOUNTED

FIRE AND/OR SMOKE DAMPERS, SO THAT DAMPER DO NOT EXTEND PASS WALLS, FOR AREAS WITHOUT CEILINGS FOR QUALITY WORKMENSHIP. 32. CONTRACTOR SHALL PERFORM MAINTENANCE ON ALL

EXISTING FIRE AND SMOKE/FIRE DAMPERS PER MANUFACTURER'S PROVISIONS. ANY FAILURES OR NON-OPERATING DAMPERS SHALL BE REPLACED AND SHALL CONFORM TO CURRENT CODE REGULATIONS. 33. ALL DUCTWORK PASSING THROUGH FIRE RATED CORRIDORS AND LOBBIES SHALL BE MIN. 26 GAGE

34. ALL DUCTWORK, PIPING, CONDUIT, & ETC. PENETRATING FIRE RATED CONSTRUCTION SHALL HAVE APPROVED FIRE STOPPING.

SHEET METAL CONSTRUCTION.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCE AND

DISTRIBUTION SYSTEM ANCHORAGE NOTE

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DS

BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH

2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY

3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT

RESPONSIILILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS

PIPING, DUCTWORK, AND ELECTRICAL

THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED

ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED

APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED O

DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3, AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25, AND 1616A.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. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE

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

PRE-APPROVAL (OPM #)

MP [] MD [x] 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

MP [] MD [] PP []

1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

SERVICES SUCH AS ELECTRICITY, GAS OR WATER.

ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

- OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNE FOR THE PROJECT AND CONDITIONS. ___ AND CONNECTION LEVEL_____

CA GREEN BUILDING STANDARDS NOTES

ENTIRE INSTALLATION SHALL COMPLY WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE INCLUDING THE FOLLOWING APPLICABLE MANDATORY

1. 5.504.1.3 - PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, CONTRACTOR SHALL USE MERV 8 MINIMUM RETURN AIR FILTERS. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.

2. 5.504.3 — CONTRACTOR SHALL COVER ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY DURING STORAGE AND CONSTRUCTION AND UNTIL FINAL STARTUP.

3. 5.504.5.3 - MERV 8 FILTERS ARE REQUIRED FOR HVAC SYSTEMS SERVING REGULARLY OCCUPIED AREAS AND AS INDICATED IN THESE PLANS.

4. 5.504.7 - OUTDOOR SMOKING AREAS SHALL BE MINIMUM 25'-0" FROM ALL BUILDING

ENTRIES, OUTDOOR AIR INTAKES, AND OPERABLE WINDOWS. 5. 5.505.1 - INSTALLATION SHALL COMPLY WITH CBC SECTION 1203 AND CHAPTER 14 FOR INDOOR MOISTURE CONTROL.

6. 5.506.2 - DEMAND CONTROL VENTILATION REQUIRED FOR ALL DENSELY OCCUPIED SPACES PER 2016 CALIFORNIA ENERGY CODE REQUIREMENTS.

CONTAIN CFCS OR HALONS.

7. 5.508.1 - HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT

SCALE NONE 2 TYP. ROOFTOP PACKAGED A/C UNIT ANCHORAGE DETAIL SCALE NONE 1

208V / 3ø 460V / 3ø — GASKETING (N)UNIT (N)SEISMIC TIE -MIN. 14 GA X 6" LONG (4) #12 SMS TO UNIT AND CURB. MIN. 2 PER SIDE EVENLY SPACED (E)DUCTWORK (N) GALV SHT. METAL COUNTER FLASHING VERIFY NO. OF WIRES (E) ROOFING & INSULATION (E)ROOF SHEATING (E) FRAMED OPENING. <u>LEGEND:</u> (E) PROVIDED BY ELEC.

(M) PROVIDED BY MECH.

TYP. ROOFTOP PACKAGED A/C UNIT WIRING DIAGRAM

PACKAGED GAS/ELECTRIC A/C UNIT SCHEDULE

SYM	MFR &	NOMINAL	COOLING	CAPACITY	SEER	HEATING	CAPACITY	AFUE	DESIGN	CFM	OSA CFM	SA	SUPPLY FAN PWR	ELEC	T-PACK	AGE UNIT	ONLY		WEIGHTS	S	REMARKS	WIRING	ANCHORAGE
31W	MODEL#	TONS	TOTAL	SENSIBLE	SEER	INPUT	OUTPUT	%	TEMP	CFIVI	CFM	ESP	(BHP)	V	PH	MCA	MOCP	UNIT	ECON	TOTAL	REWARKS	DETAIL	DETAIL
AC 1A	YORK ZE048H07A	4.0	47,500	38,000	14.0 -	75,000	60,000	0.80	105	1600	200	0.5	1.0	460	3	11.1	15	670	50	720	1, 2, 3, 4, 5	2 -	1 -
AC 2A	YORK ZE048H07A	4.0	47,500	38,000	14.0 -	75,000	60,000	0.80	105	1600	300	0.5	1.0	460	3	11.1	15	670	50	720	1, 2, 3, 4, 5	2 -	1 -
AC 3A	YORK ZE048H07A	4.0	47,500	38,000	14.0	75,000	60,000	0.80	105	1600	250	0.5	1.0	460	3	11.1	15	670	50	720	1, 2, 3, 4, 5	2 -	1 -
AC 4A	YORK ZE048H07A	4.0	47,500	38,000	14.0 -	75,000	60,000	0.80	105	1600	250	0.5	1.0	460	3	11.1	15	670	50	720	1, 2, 3, 4, 5	2 -	1 -
AC 1B	YORK ZE048H07A	4.0	47,500	38,000	14.0	75,000	60,000	0.80	105	1600	300	0.5	1.0	208	3	23.7	30	670	50	720	1, 2, 3, 4	2 -	1 -
AC 2B	YORK ZE048H07A	4.0	47,500	38,000	14.0 -	75,000	60,000	0.80	105	1600	300	0.5	1.0	208	3	23.7	30	670	50	720	1, 2, 3, 4	2 -	1 -
AC 1C	YORK ZE048H07A	4.0	47,500	38,000	14.0 -	75,000	60,000	0.80	105	1600	300	0.5	1.0	208	3	23.7	30	670	50	720	1, 2, 3, 4	2 -	1 -
AC 1D	YORK ZE048H07A	4.0	47,500	38,000	14.0 -	75,000	60,000	0.80	105	1600	300	0.5	1.0	208	3	23.7	30	670	50	720	1, 2, 3, 4	2 -	1 -
AC 1F	YORK ZE048H07A	4.0	47,500	38,000	14.0 -	75,000	60,000	0.80	105	1600	300	0.5	1.0	208	3	23.7	30	670	50	720	1, 2, 3, 4	2 -	1 -
$\left\langle \begin{array}{c} AC \\ 2F \end{array} \right\rangle$	YORK ZE048H07A	4.0	47,500	38,000	14.0 -	75,000	60,000	0.80	105	1600	300	0.5	1.0	208	3	23.7	30	670	50	720	1, 2, 3, 4	2 -	1 -

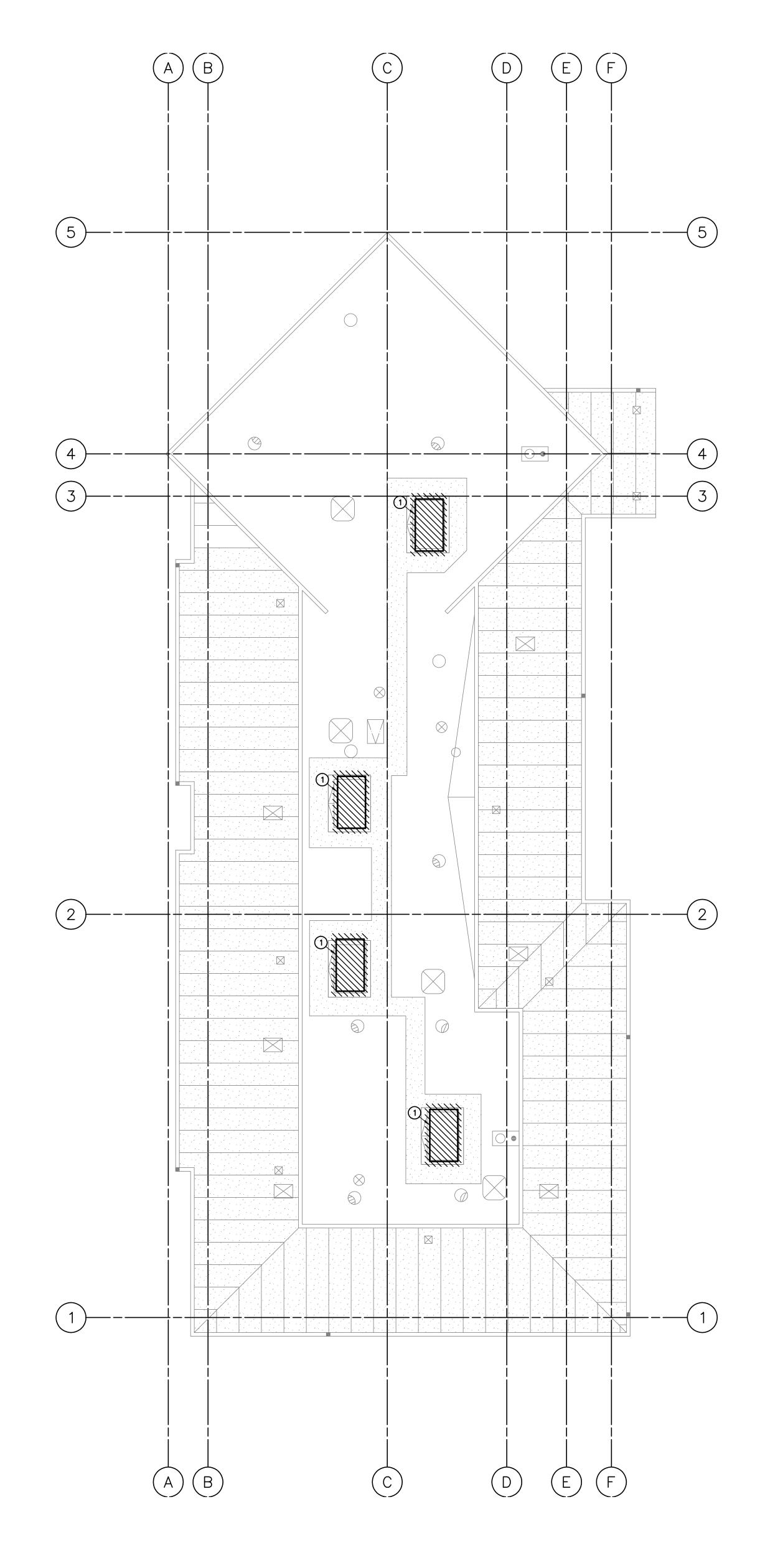
1. REUSE (E)ROOF CURB.

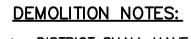
2. 100% DRY BULB ECONOMIZER.

3. REUSE (E)PROGRAMMABLE THERMOSTAT.

4. MERV 8 FILTERS. 5. PROVIDE NEW FUSES IN (E)DISCONNECT PER SCHEDULE 0

<u>administration / kindergarten</u>



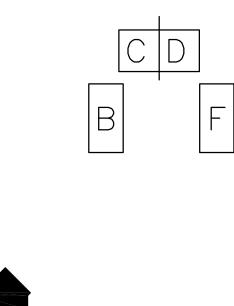


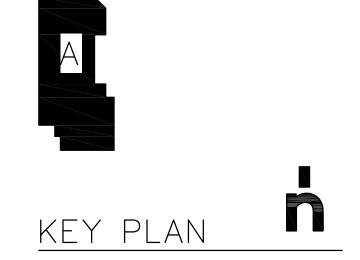
- 1. DISTRICT SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL ITEMS TO BE REMOVED. CONTRACTOR SHALL VERIFY ALL SUCH ITEMS WITH DISTRICT PRIOR TO REMOVAL. ALL ITEMS NOT REFUSED BY DISTRICT SHALL BE REMOVED INTACT AND FULLY FUNCTIONAL BY CONTRACTOR AND RETURNED TO DISTRICT. ALL ITEMS REFUSED BY DISTRICT SHALL BE PROPERLY DISPOSED OF BY CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED AS REQUIRED.
- PLUMBING CONTRACTOR SHALL DISCONNECT EXISTING CONDENSATE DRAIN FROM MECHANICAL EQUIPMENT TO BE REMOVED AND/OR REPLACED — AS REQUIRED.
- 4. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADES.
- 5. PRIOR TO ANY WORK BEING DONE CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF THE EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.

DEMOLITION KEY NOTES:

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

DEMO AND REMOVE EXISTING ROOFTOP AC UNIT.
EXISTING ROOF CURB TO REMAIN. DISCONNECT
ELECTRICAL, GAS, AND CONDENSATE TO BE
RECONNECTED AFTER INSTALLATION OF NEW A/C UNIT.





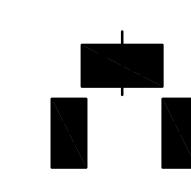


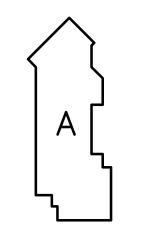
DEMOLITION NOTES:

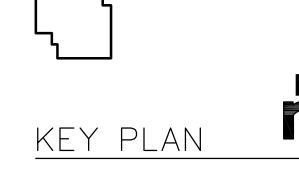
- DISTRICT SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL ITEMS TO BE REMOVED. CONTRACTOR SHALL VERIFY ALL SUCH ITEMS WITH DISTRICT PRIOR TO REMOVAL. ALL ITEMS NOT REFUSED BY DISTRICT SHALL BE REMOVED INTACT AND FULLY FUNCTIONAL BY CONTRACTOR AND RETURNED TO DISTRICT. ALL ITEMS REFUSED BY DISTRICT SHALL BE PROPERLY DISPOSED OF BY CONTRACTOR.
- 2. ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED AS REQUIRED.
- 3. PLUMBING CONTRACTOR SHALL DISCONNECT EXISTING CONDENSATE DRAIN FROM MECHANICAL EQUIPMENT TO BE REMOVED AND/OR REPLACED - AS REQUIRED.
- 4. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADES.
- 5. PRIOR TO ANY WORK BEING DONE CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF THE EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.

DEMOLITION KEY NOTES:

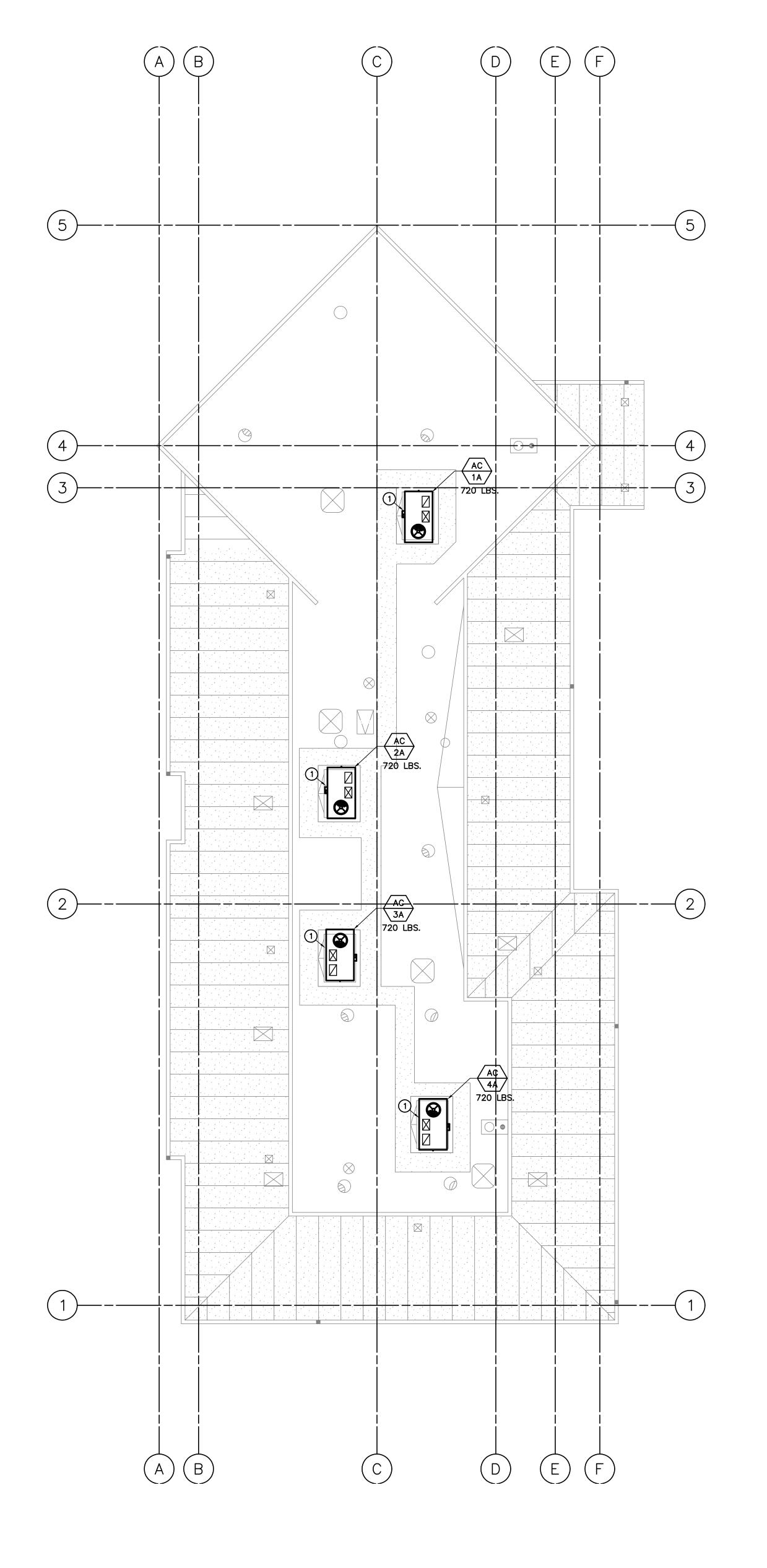
- 1) DEMO AND REMOVE EXISTING ROOFTOP AC UNIT. EXISTING ROOF CURB TO REMAIN. DISCONNECT ELECTRICAL, GAS, AND CONDENSATE TO BE RECONNECTED AFTER INSTALLATION OF NEW A/C UNIT.
- 2 EXISTING RELIEF VENT ON ROOF TO REMAIN.

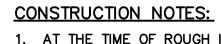






MECHANICAL ROOF PLAN - UNIT 'A'



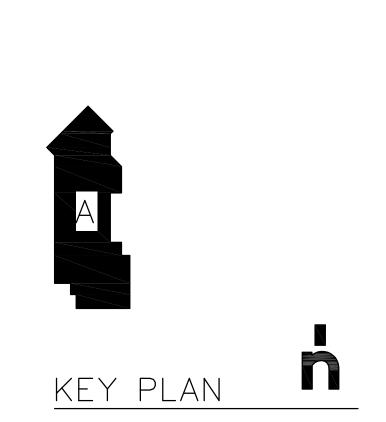


- 1. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUCT, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM.
- 2. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
- 3. CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES FROM ALL ELECTRICAL EQUIPMENT AND SERVICE CLEARANCES FOR MECHANICAL EQUIPMENT.
- 4. CONDENSATE AND GAS PIPING TO BE RECONNECTED BY PLUMBING DISCIPLINE. SEE PLUMBING DRAWINGS.
- ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" AWAY FROM EXISTING EXHAUST FANS, FLUES, AND PLUMING VENTS.

CONSTRUCTION KEY NOTES:

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

1) NEW A/C UNIT ON EXISTING ROOF CURB. CONTRACTOR SHALL RECONNECT (E)DUCTWORK, CONDENSATE, GAS, THERMOSTAT, AND ELECTRICAL CONNECTIONS.



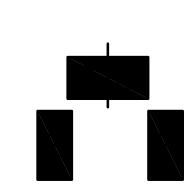
 AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUCT, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM.

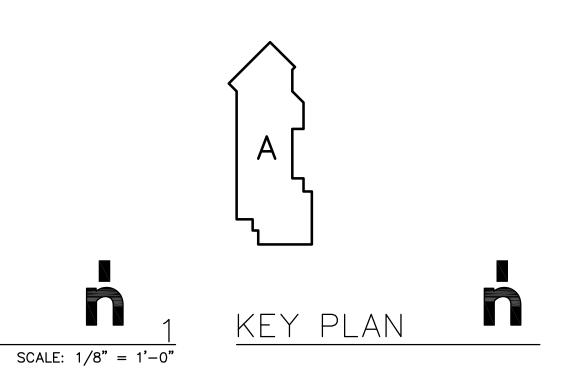
- 2. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
- 3. CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES FROM ALL ELECTRICAL EQUIPMENT AND SERVICE CLEARANCES FOR MECHANICAL EQUIPMENT.
- 4. CONDENSATE AND GAS PIPING TO BE RECONNECTED BY PLUMBING DISCIPLINE. SEE PLUMBING DRAWINGS.
- ALL NEW EQUIPMENT SHALL BE MINIMUM 10' FROM EXISTING ROOF EDGE.
- 6. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" AWAY FROM EXISTING EXHAUST FANS, FLUES, AND PLUMING VENTS.

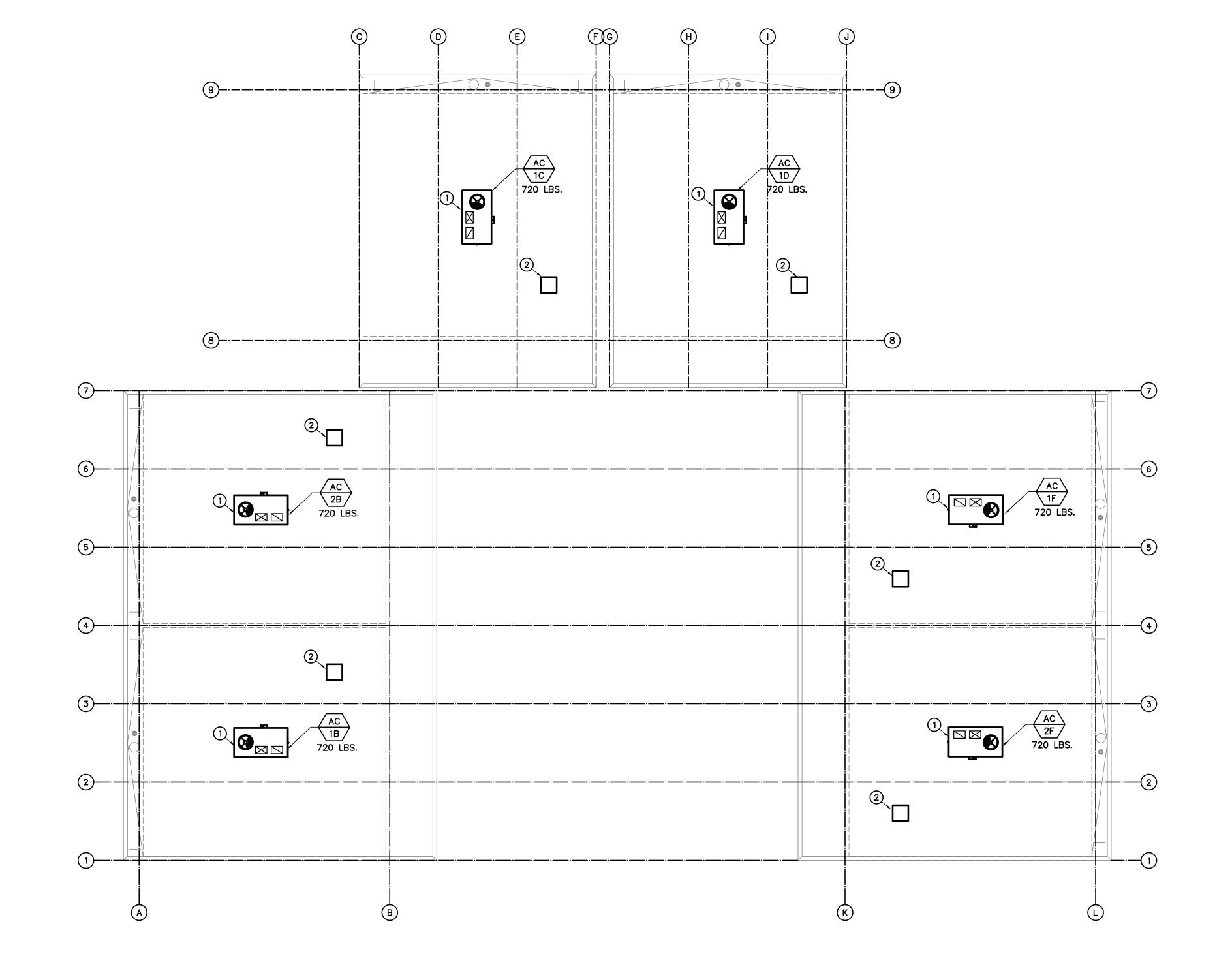
CONSTRUCTION KEY NOTES:

1 NEW A/C UNIT ON EXISTING ROOF CURB. CONTRACTOR SHALL RECONNECT (E)DUCTWORK, CONDENSATE, GAS, THERMOSTAT, AND ELECTRICAL CONNECTIONS.

2 EXISTING RELIEF VENT ON ROOF.







STATE OF CALIFORNIA STATE OF CALIFORNIA MECHANICAL SYSTEMS **MECHANICAL SYSTEMS** CEC-NRCC-MCH-01-E (Revised 01/16)
CERTIFICATE OF COMPLIANCE CEC-NRCC-MCH-01-E (Revised 01/16) CERTIFICATE OF COMPLIANCE NRCC-MCH-01-E Date Prepared: 3/22/2019 ect Name: MES - Mechanical Replacement ame: MES - Mechanical Replacement DOCUMENTATION AUTHOR'S DECLARATION STATEMENT C. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents) I certify that this Certificate of Compliance documentation is accurate and complete. Test Performed By: Documentation Author Signature: andrew Hodsman Andrew Gossman This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable nature Date: 3/22/2019 Pocock Design Solutions, Inc. poxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number HERS Certification Identification (if applicable): M35839 14451 Chambers Rd., Ste. 210 The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has Tustin, CA 92780 e: 949-417-3903 esponsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsib RESPONSIBLE PERSON'S DECLARATION STATEMENT certify the following under penalty of perjury, under the laws of the State of California Plancheck - The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. The information provided on this Certificate of Compliance is true and correct. nspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations 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 MCH-12-A MCH-13-A MCH-14-A Automatic Fault Distributed Energy The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance Fault Detection & Equipment Thermal Energy Detection & conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. Storage (TES) Requiring Testing Diagnostics for DX Storage DX AC Diagnostics for Air & 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 or Verification Units Systems Systems worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. ork ZE048H07 10 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. onsible Designer Signature: Ondrew Dosaner Andrew Gossman Pocock Design Solutions, Inc. 3/22/2019

Date Prepared: 3/22/2019 Date Prepared: 3/22/2019 tt Name: MES - Mechanical Replacement B. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents) This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number he contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has esponsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible Plancheck - The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations. MCH-02-A MCH-03-A MCH-04-A MCH-05-A MCH-06-A MCH-07-A MCH-08-A MCH-09-A Supply Air Equipment # of Outdoor Single Zone Distribution

Requiring Testing Units Air Unitary Ducts Economizer Control Supply Fan Valve Leakage Supply Water ECMS Temperature Reset Reset Controls Demand Shed Controls Ventilation VAV Test Temp. Reset Variable Flow Controls

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

REQUIRED ACCEPTANCE TESTS

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS

110.1 or 110.2(a)

Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.

(enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).

Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).

Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)

10. Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.

11. If duct leakage sealing and testing is required, a MCH-04-A compliance document must be submitted.

ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.

Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity

For each requirement, enter the minimum requirement from the Standard In the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for

In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum

In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).

equirements for Packaged Single-Zone Units

Project Name: MES - Mechanical Replacement

Outdoor Air and Exhaust Damper Control

Heating Equipment Efficiency

cooling Equipment Efficiency

Furnace Standby Loss Conti

emand Control Ventilation

utomatic Demand Shed Controls

nutoff and Reset Contro

PRESCRIPTIVE MEASURES

the units as specified.

capabilities of the thermostat as scheduled.

140.4 (a & b)

ow Leakage AHU

STATE OF CALIFORNIA

NRCC-MCH-01-E

MECHANICAL SYSTEMS

CEC-NRCC-MCH-01-E (Revised 01/16)
CERTIFICATE OF COMPLIANCE

MECHANICAL SYSTEMS CERTIFICATE OF COMPLIANCE NRCC-MCH-01-E Date Prepared: 3/22/2019 ect Name: MES - Mechanical Replacement A. MECHANICAL COMPLIANCE DOCUMENTS & WORKSHEETS (check box if worksheet is included) r detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2016 Nonresidential Manual Note: The Enforcement Agency may require all forms to be incorporated onto the building plans. S NO Comp. Doc./Worksheet # Title

NRCC-MCH-01-E (Part 1 of 3) Certificate of Compliance, Declaration. Required on plans for all submittal ✓ NRCC-MCH-01-E (Part 2 of 3) Certificate of Compliance, Required Acceptance Tests (MCH-02-A to 11-A). Required on plans for all submittals. NRCC-MCH-01-E (Part 3 of 3) Certificate of Compliance, Required Acceptance Tests (MCH-12-A to 18-A). Required on plans where applicable. MRCC-MCH-02-E (Part 1 of 2) Mechanical Dry Equipment Summary is required for all submittals with Central Air Systems. It is optional on plans. Mechanical Wet Equipment Summary is required for all submittals with chilled water, hot water or condenser water □ NRCC-MCH-02-E (Part 2 of 2) systems. It is optional on plans. Mechanical Ventilation and Reheat is required for all submittals with multiple zone heating ard cooling systems. It is □ □ NRCC-MCH-03-E NRCC-MCH-07-E (Part 1 of 2) Power Consumption of Fans. Required on plans where applicable

NRCC-MCH-07-E (Part 2 of 2) Power Consumption of Fans, Declaration. Required on plans where applicable

STATE OF CALIFORNIA

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

(Page 1 of 2

Date Prepared: 3/22/2019

8,102 Btu/hr 44,513 Btu/hr 38,102 Btu/hr 44,513 Btu/hr 38,102 Btu/hr 44,513 Btu/hr

NRCC-MCH-01-E

M35839

949-417-3903

14451 Chambers Rd. Ste 210

Tustin, CA 92780

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS

CERTIFICATE OF COMPLIANCE

Requirements for Packaged Single-Zone Un							(Page 1 of 2
roject Name: MES - Mechanical Replacemen	nt				Date Prepared: 3/22/201	19	
Equipment Tag(s) ¹		AC-1A		AC-2A		AC-3A	
MANDATORY MEASURES	T-24 Sections	Requirement ³	As Scheduled ³	Requirement ³	As Scheduled ³	Requirement ³	As Scheduled ³
Heating Equipment Efficiency ⁴	110.1 or 110.2(a)	81% AFUE	80% AFUE	81% AFUE	80% AFUE	81% AFUE	80% AFUE
Cooling Equipment Efficiency ⁴	110.1 or 110.2(a)	13 SEER	14.0 SEER / 12	13 SEER	14.0 SEER / 12	13 SEER	14.0 SEER / 12.2
Thermostats ⁵	110.2(b), 110.2(c)	Setback	Setback	Setback	Setback	Setback	Setback
Furnace Standby Loss Control ⁶	110.2(d)	n/a		n/a		n/a	
Low Leakage AHU	110.2(f)	NR	none	NR	none	NR	none
Ventilation ⁷	120.1(b)	338	338	338	338	338	338
Demand Control Ventilation ⁸	120.1(c)4	NR	No	NR	No	NR	No
Occupant Sensor Ventilation Contro®	120.1(c)5, 120.2(e)3						
Shutoff and Reset Controls ⁹	120.2(e)	Req	Programmable	Req	Programmable	Req	Programmable S
Outdoor Air and Exhaust Damper Control	120.2(f)	Req	Auto	Req	Auto	Req	Auto
Automatic Demand Shed Controls	120.2(h)	NR	none	NR	none	NR	none
Economizer FDD	120.2(i)	NR	No	NR	No	NR	No
Duct Insulation	120.4	R-8	R-8.0	R-8	R-8.0	R-8	R-8.0
PRESCRIPTIVE MEASURES						•	
Equipment is sized in conformance with	140.4(a & b)	19,038 Btu/hr	60,000 Btu/hr	19,038 Btu/hr	60,000 Btu/hr	19,038 Btu/hr	60,000 Btu/hr
140.4 (a & b)		38,102 Btu/hr	44,513 Btu/hr	38,102 Btu/hr	44,513 Btu/hr	38,102 Btu/hr	44,513 Btu/hr
Economizer	140.4(e)	NR	No Economize	NR	No Economizer	NR	No Economizer

- Provide equipment tags (e.g. ACI or ACI to 10). Multiple units of the same make and model with the same application and accessories can be grouped together Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or hea: pump; rated heating capacit (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons). For each requirement, enter the minimum requirement from the Standard In the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for
- the units as specified. Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER). In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heat pump with electric heat), . In the right column indicate the
- If the unit has a furnace which is rated at \geq 225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for \leq 225,000 Btuh In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum
- ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column. If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupan Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column) In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).

If duct leakage sealing and testing is required, a MCH-04-A compliance document must be submitted.

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10. Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.

REQUIRED ACCEPTANCE TESTS CERTIFICATE OF COMPLIANCE NRCC-MCH-04-E Date Prepared: 3/22/2019 oject Name: MES - Mechanical Replacement OCUMENTATION AUTHOR'S DECLARATION STATEMEN I certify that this Certificate of Compliance documentation is accurate and complete. ation Author Name: Andrew Gossman andrew Dosaner Pocock Design Solutions, Inc. 14451 Chambers Rd., Ste. 210 Tustin, CA 92780 e: 949-417-3903 RESPONSIBLE PERSON'S DECLARATION STATEMENT ertify the following under penalty of perjury, under the laws of the State of California The information provided on this Certificate of Compliance is true and correct. Lam 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 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. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable 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 andrew Dosener Andrew Gossman 3/22/2019 Pocock Design Solutions, Inc. M35839 14451 Chambers Rd. Ste 210 Tustin, CA 92780 949-417-3903

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CERTIFICATE OF COMPLIANCE NRCC-MCH-04-E quired Acceptance Tests Date Prepared: 3/22/2019 t Name: MES - Mechanical Replacemen This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated r normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. systems Acceptance. Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements. The NRCC-MCH-04-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked he equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance documents shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section -103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed compliance documents before the building can receive final occupancy. MCH-02-A MCH-03-A MCH-04-A MCH-05-A MCH-06-A MCH-07-A MCH-11-A MCH-12-A MCH-14-A MCH-18-A Test Performed By: Automatic Demand FDD for Energy Management Control Zone Distribution Economizer Ventilation Supply Shed Packaged Storage DX Control Testing or
 Verification
 Units
 Air
 Unitary
 Ducts
 Controls
 (DCV)
 Fan VAV
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 DX Units
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	E OF COM		NRCC-MCH-04-E
	cceptance	Tests	(Page 1 of 3)
roject Name:	MES - Med	chanical Replacement	Date Prepared: 3/22/2019
Note: The	Enforceme	ent Agency may require all compli	rgy Standards compliance documents, refer to the 2016 Nonresidential Manual iance documents to be incorporated onto the building plans. The NRCC-MCH-04-E and NRCC-MECH-05-E are alternative IH-02-E and NRCC-MCH-03-E for projects using only single zone packaged HVAC systems.
Note: The	Enforceme	ions on the use of this and all Ener ent Agency may require all compli	
Note: The complian	Enforceme ce docume	ions on the use of this and all Ener ent Agency may require all compli nts to NRCC-MCH-01-E, NRCC-MCI	iance documents to be incorporated onto the building plans. The NRCC-MCH-04-E and NRCC-MECH-05-E are alternative H-02-E and NRCC-MCH-03-E for projects using only single zone packaged HVAC systems.
Note: The compliant YES	Enforceme ce docume	ions on the use of this and all Enei ent Agency may require all compli ints to NRCC-MCH-01-E, NRCC-MCI Form	Title
Note: The compliant	Enforceme ce docume	ions on the use of this and all Ener ent Agency may require all compli- nts to NRCC-MCH-01-E, NRCC-MCI Form NRCC-MCH-04-E (1 of 2)	Title Certificate of Compliance. Required on plans when used.

REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS (Page 2 of 2) equirements for Packaged Single-Zone Unit Name: MES - Mechanical Replacement Date Prepared: 3/22/2019 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Signature: don Author Name: Andrew Gossman andrew Dossmer Signature Date: 3/22/2019 Pocock Design Solutions, Inc. if applicable): M35839 14451 Chambers Rd., Ste. 210 Tustin, CA 92780 ONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct. 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 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. 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,

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. Andrew Gossman andrew Dossmer Pocock Design Solutions, Inc. 3/22/2019 14451 Chambers Rd. Ste 210 M35839 Tustin, CA 92780 949-417-3903

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 mace available to the enforcement

worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS Requirements for Packaged Single-Zone Units (Page 1 of 2) Project Name: MES - Mechanical Replacement Date Prepared: 3/22/2019 Equipment Tag(s)¹
MANDATORY MEASURES Requirement³ As Scheduled³ Requirement³ As Scheduled³ Requirement³ As Scheduled³ 81% AFUE 80% AFUE Heating Equipment Efficiency 110.1 or 110.2(a) Cooling Equipment Efficiency Furnace Standby Loss Contr Low Leakage AHU Demand Control Ventilation Outdoor Air and Exhaust Damper Control Automatic Demand Shed Controls PRESCRIPTIVE MEASURES 140.4(a & b) 140.4 (a & b) 3,102 Btu/hr 44,513 Btu/h Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together. Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity

(enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons). For each requirement, enter the minimum requirement from the Standard In the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified. . Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER). 5. In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heat pump with electric heat), . In the right column indicate the

capabilities of the thermostat as scheduled. If the unit has a furnace which is rated at ≥225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.

Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column) 9. In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock). Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies. 11. If duct leakage sealing and testing is required, a MCH-04-A compliance document must be submitted.

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REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS Requirements for Packaged Single-Zone Units roject Name: MES - Mechanical Replacement Date Prepared: 3/22/2019 MANDATORY MEASURES Heating Equipment Efficiency 110.1 or 110.2(a) Cooling Equipment Efficienc Furnace Standby Loss Conti ow Leakage AHU Demand Control Ventilation Shutoff and Reset Contr Outdoor Air and Exhaust Damper Control PRESCRIPTIVE MEASURES 38,102 Btu/hr 44,513 Btu/hr 38,102 Btu/hr 44,513 Btu/hr 38,102 Btu/hr 44,513 Btu/hr 140.4 (a & b) Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together. Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons) For each requirement, enter the minimum requirement from the Standard In the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified. Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER). In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heat pump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled. If the unit has a furnace which is rated at ≥225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.

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