Reflect what if any additional dead load. See 2021 Washington State Existing Building Code, Section 706.3.

SPECIFIED MFR FURNISH BY DELIVERY SCHEDULE INSTALL BY CONNECTION START UP COORDINATION SYSTEMS Cx ASSET TAGGING REMOTE CHECKOUT SMOKE DETECTOR HARDWARE **TEST & BALANCING** SPACE SENSORS & CABLE (N) RTUS (ROOFTOP UNITS) MECH MECH FURNISHED BY: ALARMS FURNISHED BY: OWNER'S EMS FURNISHED BY: OWNER'S EMS FACTORY INSTALLED MECH OWNER'S Cx MECH INSTALLED BY: ALARMS INSTALLED BY: MECH INSTALLED BY: MECH WIRE TO RTU BY: ELEC TERMINATION: MECH TERMINATION @ RTU: MECH TERMINATION @ DETECTOR & FA PANEL: ALARMS (N) ROOFTOP CURB ADAPTERS MECHANICAL CONTRACTOR SHALL ACT AS PRIME (GENERAL CONTRACTOR) AND SUBCONTRACT TO TRADES NOTED IN MATRIX. FIRE ALARM SERVICES TO BE SUBCONTRACATED TO TARGET APPROVED FA CONTRACTOR. PACKAGED ROOFTOP UNIT SCHEDULE T-0342 PUYALLUP, WA Gas Pressure = 2.0 psi Cooling Design Conditions Heating Design Heating Performance ESP (in. WC) Fan Motor (BHP) SA Fan (RPM) Outdoor Air (RPM) Outdoo 
 14/13.4
 19.5
 63.2
 NG
 67
 54
 114.9
 81%
 460-3-60
 11
 15
 615
 1-7,-,9,--,--,12,13,14,--,- 

 19.5
 68.0
 NG
 240
 195
 107.6
 81%
 460-3-60
 36
 45
 1748
 1-7,-,9,10,--,12,13,14,--,- 

 14/13.4
 19.5
 58.9
 NG
 110
 88
 111.4
 80%
 460-3-60
 12
 15
 739
 1-7,-,9,--,--,12,13,14,--,- 

 5
 19.5
 55.0
 NG
 110
 88
 91.8
 80%
 460-3-60
 17
 25
 1285
 1-7,-,9,10,--,12,13,14,--,- RTU-16 - PHARMACY RTU-18 - SALES/MARKET RTU-19 - FRONT STOCK 48FEEB05 RTU-20 - STOCK 1)2" MERV 8 FILTER, 2)HACR BREAKER, 3)PVC DRAIN TRAP, 4)BACNET CONTROLLER, 5)GFCI FIELD-WIRED, 6)HOLD DOWN CLIPS, 7)ECONOMIZER, 8)BAROMETRIC RELIEF, 9)CONDENSER CORROSION PROTECTION, 10)VFD, 11)CO2 MON REQ, 12)HOT GAS REHEAT, 13)HAIL GUARD, 14)POWER EXHAUST, 15)VAV, 16)OWNER-FURNISHED CURB CAP minime manime Provide weight of existing and proposed units.

EOL HVAC EQUIPMENT RESPONSIBILITY MATRIX ELECTRICAL EQUIPMENT

— ROOFTOP UNIT

NEOPRENE GASKET

TEK SCREW. TYP.

AES INDUSTRIES.

- ADAPTER ROOF CURB

- EXISTING ROOF CURB

RTU HOLD-DOWN BRACKET INSTALLATION DETAIL
NOT TO SCALE

HOLD-DOWN BRACKETS BY AES,

#14x1" LONG TEK SCREWS PER

VARY WITH RTU SIZE. SEE

BRACKET. BRACKET DIMENSIONS

USING FOUR OR SIX

BRACKET

(TYP OF 4 OR SIX)

ATTACH TO RTU & ADAPTER CURB

- EXISTING RIGID INSULATION NIC.

NEOPRENE GASKET

SEE DETAIL 1/ME01.

BRACKET FURNISHED BY

- EXISTING ROOF MEMBRANE NIC.

EXISTING ROOF DECK

INSTALLATION:

NEW OWNER FURNISHED AES ADAPTER CURB —

EXISTING ROOF CURB -

AES ADAPTER CURB INSTALLATION:

PRIOR TO LIFTING.

DAMAGE ROOF CURB.)

FLANGES AND RAILS.

SCREWS (w/ GASKETS).

RETURN AIR RAILS.

RECOMMENDATIONS.

REMOVE ALL CONNECTIONS TO EXISTING RTU

CAREFULLY REMOVE EXISTING RTU. (DO NOT

INSTALL OWNER FURNISHED NEOPRENE

GASKETS TO ALL EXISTING ROOF CURB

ROOF CURB AS SHOWN. SEAL ALL AIR IMPACTED SURFACES SUCH AS GAPS

PLACE NEW ADAPTER CURB OVER EXISTING

BETWEEN MATING SUPPLY/RETURN RAILS.

ATTACH ADAPTER CURB TO EXISTING ROOF CURB WITH #14x3" LONG SELF TAPPING

TO ADAPTER CURB FLANGES AND SUPPLY/

INSTALL NEW RTU PER MANUFACTURER'S

INSTALL OWNER FURNISHED NEOPRENE GASKET

1 RTU ADAPTER CURB INSTALLATION DETAIL (TYPICAL)

NOT TO SCALE

ROOF CURB ADAPTER FURNISHED BY AES

CONTACT: CHAD BURT

EMAIL: CBURT@AESCURB.COM

PHONE: (334) 283-3450

- INSTALL (2) LAYERS OF OWNER FURNISHED NEOPRENE GASKETS.

ATTACH ADAPTER CURB TO

EXISTING CURB w/#14x3"

TEK SCREWS @ 12" O.C. PRE-DRILLED LOCATIONS.

INSTALL OWNER FURNISHED NEOPRENE GASKET.

SUPPORT, SEE 03/ME01 PEEL AND STICK ADHESIVE ON **BOTTOM OF BASE** PIPE SIZE SAME -AS UPSTREAM OF FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS ON PROCEDURE TO FASTEN SUPPORT TO REGULATOR. ROOF MEMBRANE. PROVIDE PROPER ROLLER SUPPORT MATERIAL FOR COPPER PIPING TO AVOID CORROSION DUE TO DISSIMILAR METALS. NOTES:
1. REGULATOR PROVIDED BY CONTRACTOR. 2. INSTALL REGULATOR A MINIMUM 4'-0" FROM UNIT EXHAUST FLUE. 3. PROVIDE PIPE TRANSITION IF REGULATOR CONNECTION DIFFERS FROM GAS PIPE SIZE. ROOF-MOUNTED PIPE SUPPORT

NOT TO SCALE 4 GAS CONNECTION FOR ROOFTOP EQUIPMENT
NOT TO SCALE

CONTACT: JOHN ENGLE

PHONE: (713)672-5088

TOLL FRÈE: (800) 797-6585 EMAIL: john@phpsd.com

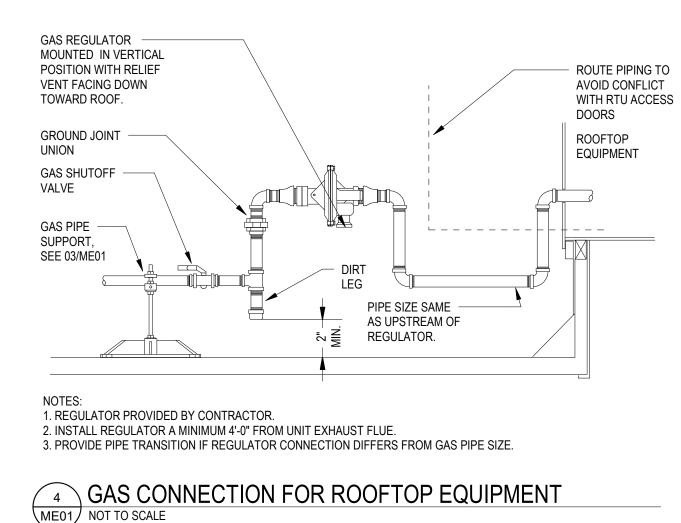
ADJUSTABLE BRACKET

ROLLER SUPPORT

THREADED ROD

COMPOSITE BASE

GALVANIZED



SHEET INDEX

ME01 MECHANICAL AND ELECTRICAL SCHEDULES AND DETAILS

ME141 MECHANICAL AND ELECTRICAL PLANS ME142 MECHANICAL AND ELECTRICAL PLANS

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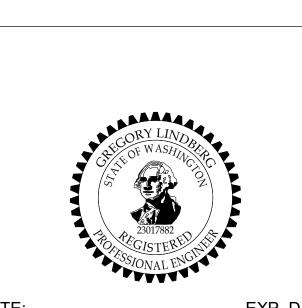
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1000 NICOLLET MALL

MINNEAPOLIS, MN 55403

NELSON-RUDIE & ASSOCIATES, INC. 9100 49<sup>TH</sup> AVE N MINNEAPOLIS, MN 55428

DATE: 02/05/25		EXP. I 02
Date	No.	Description
02/05/25		2024 RTU EOL LITE
05/13/2025	1	Rev 1 Carrier



08/25/26

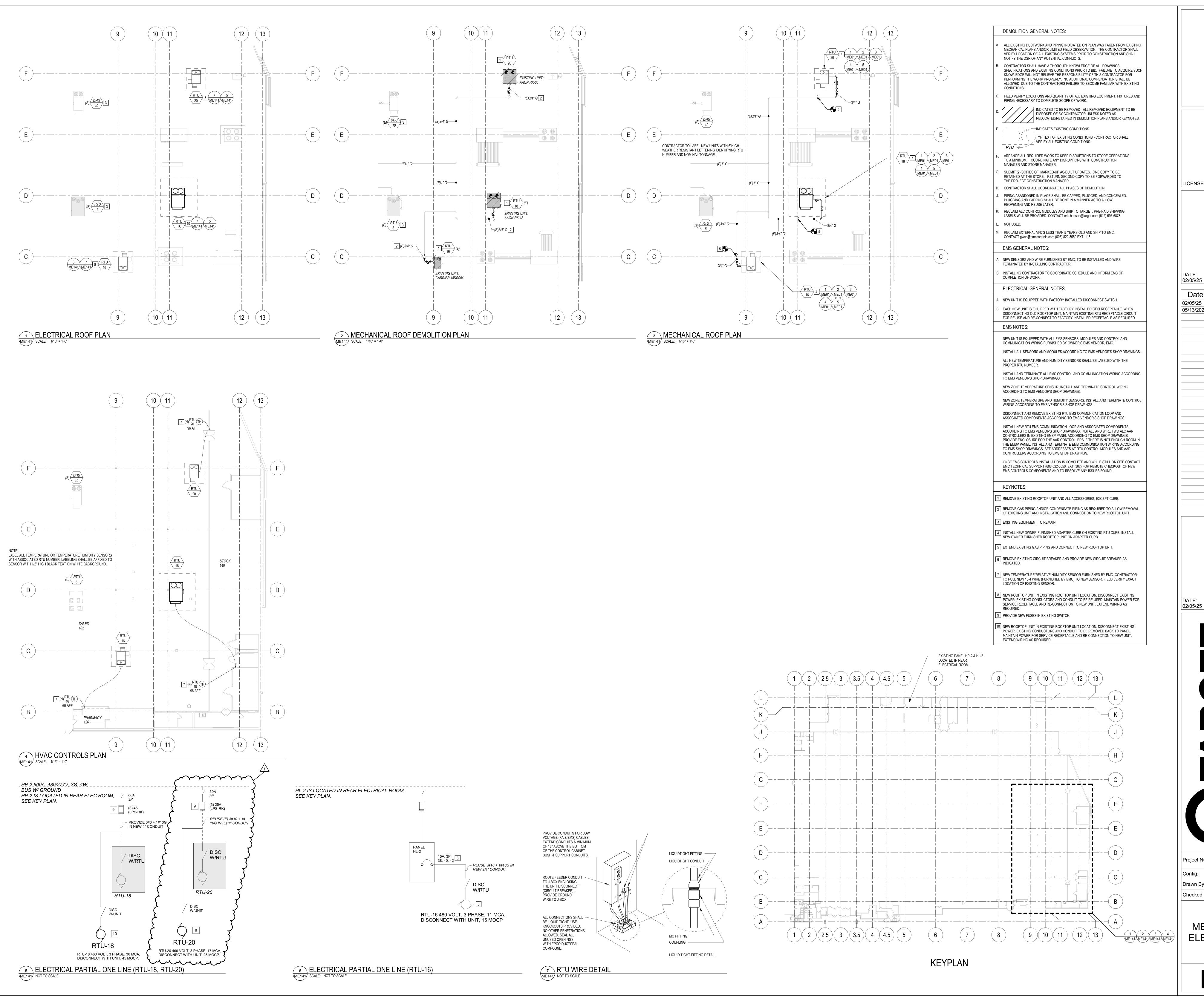
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**DETAILS** 

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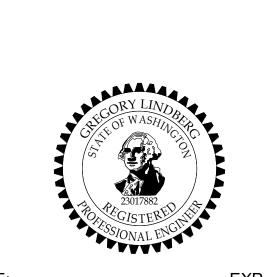
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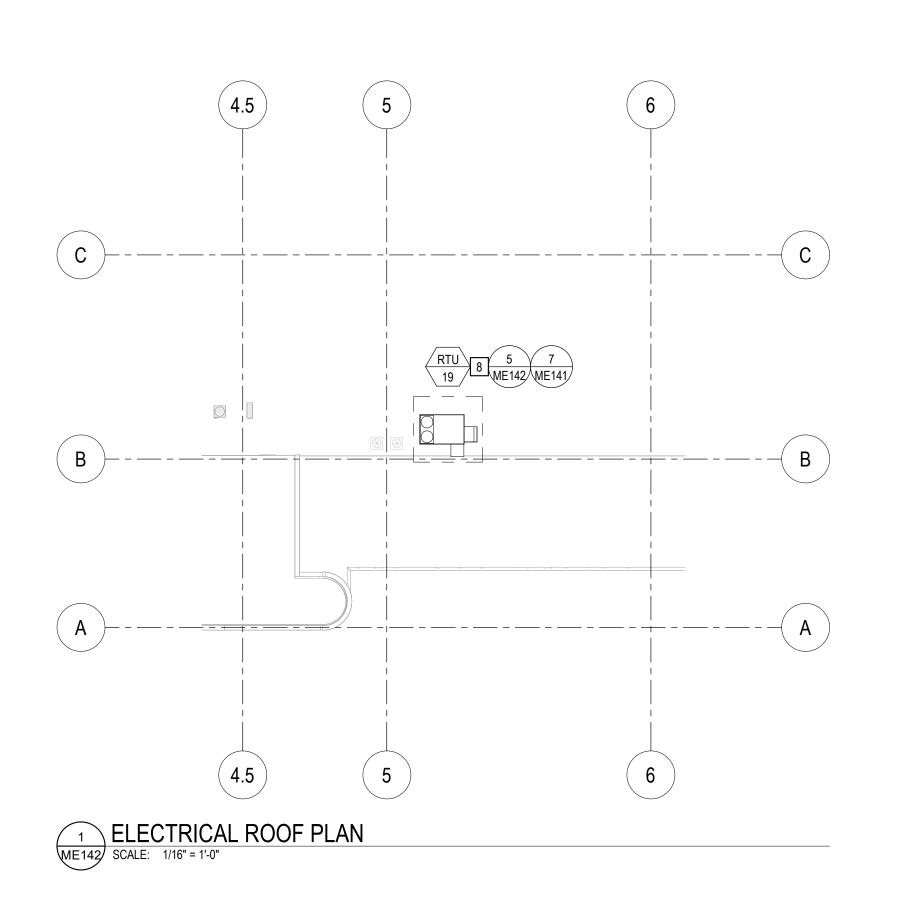
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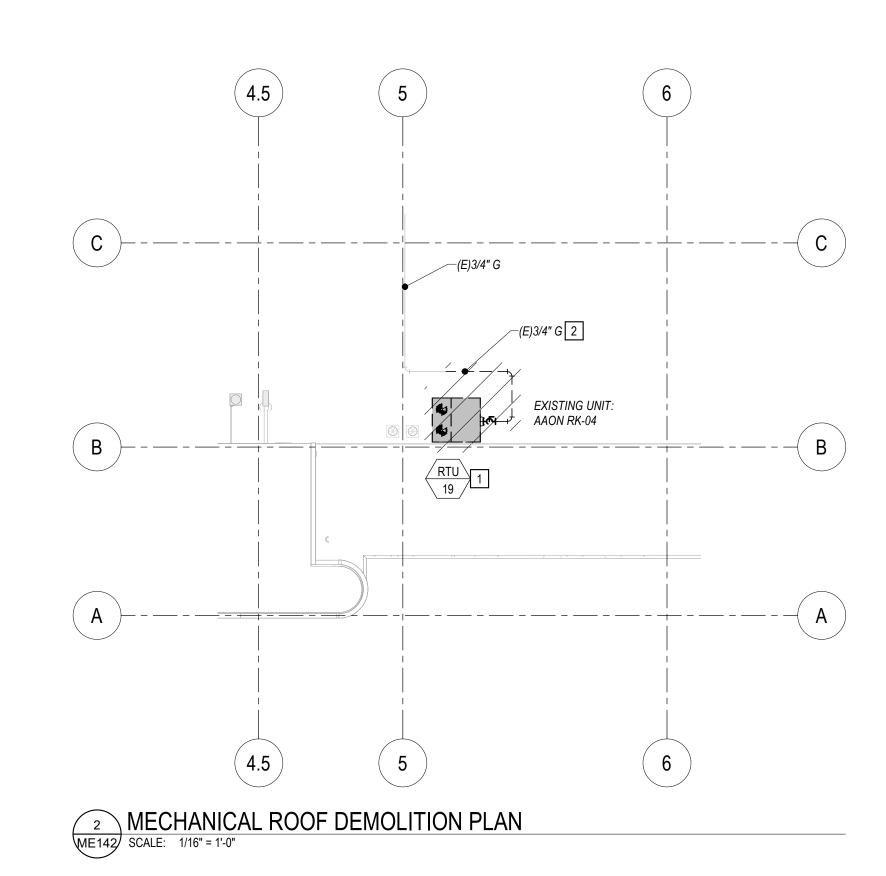


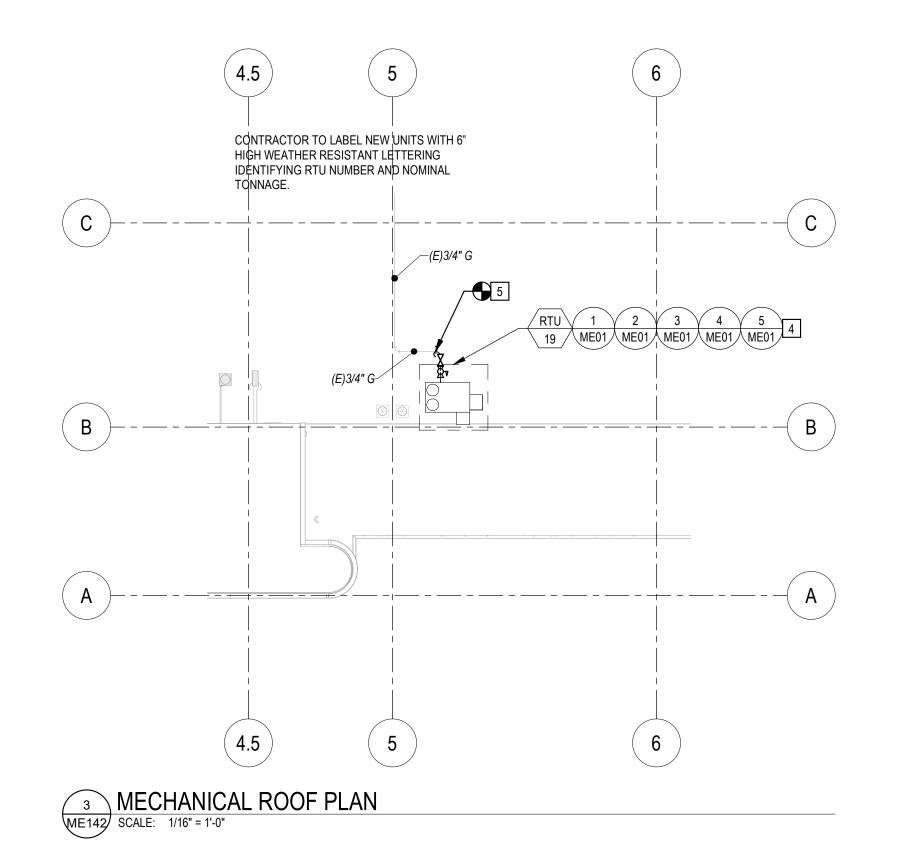
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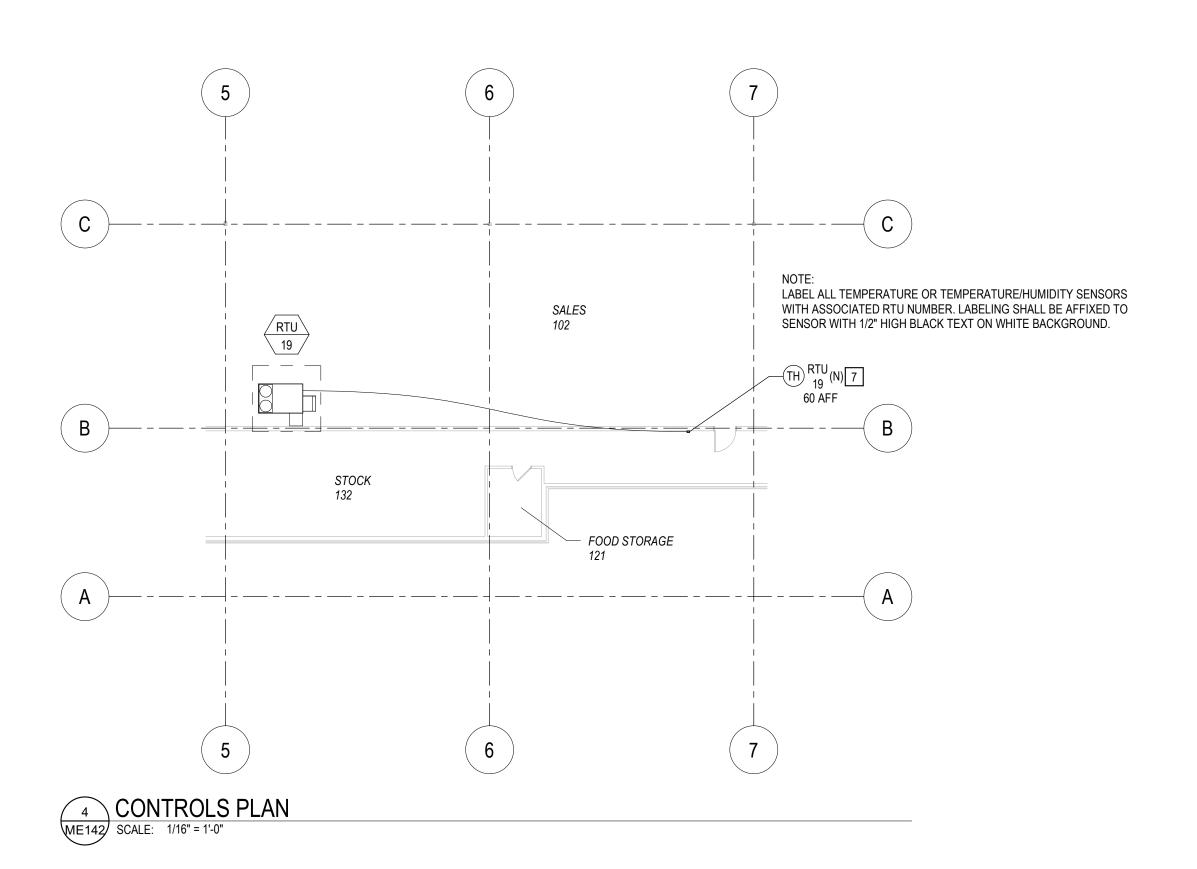
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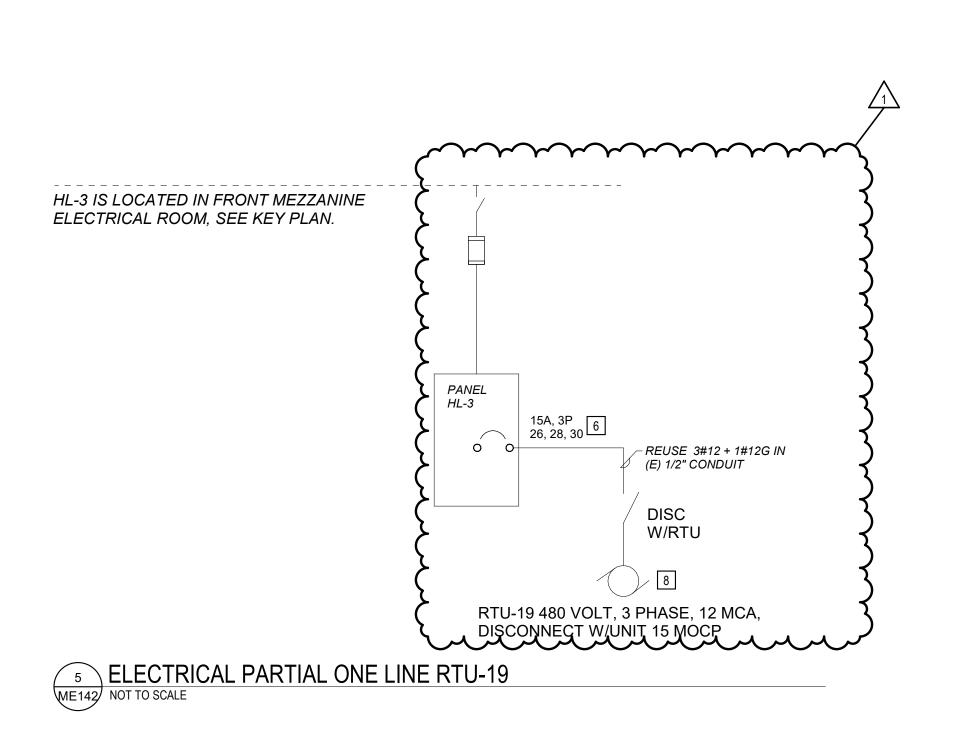
MECHANICAL AND ELECTRICAL PLANS

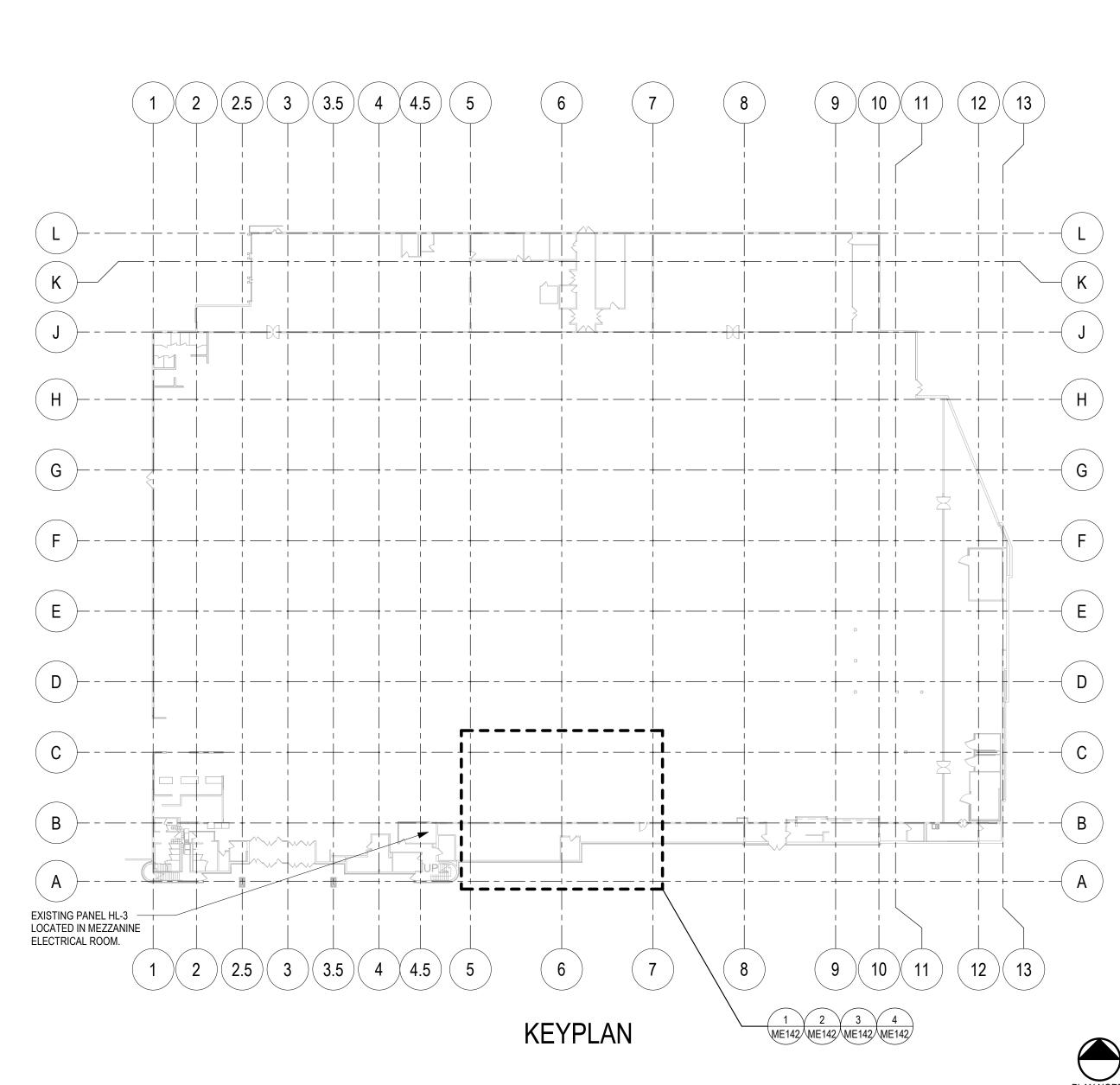












#### DEMOLITION GENERAL NOTES:

- ALL EXISTING DUCTWORK AND PIPING INDICATED ON PLAN WAS TAKEN FROM EXISTING MECHANICAL PLANS AND/OR LIMITED FIELD OBSERVATION. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING SYSTEMS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE OSR OF ANY POTENTIAL CONFLICTS.
   B. CONTRACTOR SHALL HAVE A THOROUGH KNOWLEDGE OF ALL DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS PRIOR TO BID. FAILURE TO ACQUIRE SUCH KNOWLEDGE WILL NOT RELIEVE THE RESPONSIBILITY OF THIS CONTRACTOR FOR
- CONTRACTOR SHALL HAVE A THOROUGH KNOWLEDGE OF ALL DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS PRIOR TO BID. FAILURE TO ACQUIRE SUCH KNOWLEDGE WILL NOT RELIEVE THE RESPONSIBILITY OF THIS CONTRACTOR FOR PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO THE CONTRACTORS FAILURE TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
   FIELD VERIFY LOCATIONS AND QUANTITY OF ALL EXISTING EQUIPMENT, FIXTURES AND
- D. INDICATED TO BE REMOVED ALL REMOVED EQUIPMENT TO BE DISPOSED OF BY CONTRACTOR UNLESS NOTED AS RELOCATED/RETAINED IN DEMOLITION PLANS AND/OR KEYNOTES.

  E. \_\_\_\_\_\_INDICATES EXISTING CONDITIONS.
- TYP TEXT OF EXISTING CONDITIONS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.

  ARRANGE ALL REQUIRED WORK TO KEEP DISRUPTIONS TO STORE OPERATIONS
- TO A MINIMUM. COORDINATE ANY DISRUPTIONS WITH CONSTRUCTION MANAGER AND STORE MANAGER.

  SUBMIT (2) COPIES OF MARKED-UP AS-BUILT UPDATES. ONE COPY TO BE RETAINED AT THE STORE. RETURN SECOND COPY TO BE FORWARDED TO
- THE PROJECT CONSTRUCTION MANAGER.

  H. CONTRACTOR SHALL COORDINATE ALL PHASES OF DEMOLITION.

  J. PIPING ABANDONED IN PLACE SHALL BE CAPPED, PLUGGED, AND CONCEALED. PLUGGING AND CAPPING SHALL BE DONE IN A MANNER AS TO ALLOW REOPENING AND REUSE LATER.
- NOT USED.
   M. RECLAIM EXTERNAL VFD'S LESS THAN 5 YEARS OLD AND SHIP TO EMC. CONTACT gwen@emccontrols.com (608) 822-3550 EXT. 115

RECLAIM ALC CONTROL MODULES AND SHIP TO TARGET, PRE-PAID SHIPPING LABELS WILL BE PROVIDED. CONTACT eric.hansen@target.com (612) 696-6878

# EMS GENERAL NOTES:

A. NEW SENSORS AND WIRE FURNISHED BY EMC, TO BE INSTALLED AND WIRE TERMINATED BY INSTALLING CONTRACTOR.

B. INSTALLING CONTRACTOR TO COORDINATE SCHEDULE AND INFORM EMC OF COMPLETION OF WORK.

### ELECTRICAL GENERAL NOTES:

A. NEW UNIT IS EQUIPPED WITH FACTORY INSTALLED DISCONNECT SWITCH.

B. EACH NEW UNIT IS EQUIPPED WITH FACTORY INSTALLED GFCI RECEPTACLE. WHEN DISCONNECTING OLD ROOFTOP UNIT, MAINTAIN EXISTING RTU RECEPTACLE CIRCUIT FOR RE-USE AND RE-CONNECT TO FACTORY INSTALLED RECEPTACLE AS REQUIRED.

## EMS NOTES:

NEW UNIT IS EQUIPPED WITH ALL EMS SENSORS, MODULES AND CONTROL AND COMMUNICATION WIRING FURNISHED BY OWNER'S EMS VENDOR, EMC.

INSTALL ALL SENSORS AND MODULES ACCORDING TO EMS VENDOR'S SHOP DRAWINGS.

ALL NEW TEMPERATURE AND HUMIDITY SENSORS SHALL BE LABELED WITH THE PROPER RTU NUMBER.

INSTALL AND TERMINATE ALL EMS CONTROL AND COMMUNICATION WIRING ACCORDING TO EMS VENDOR'S SHOP DRAWINGS.

NEW ZONE TEMPERATURE SENSOR: INSTALL AND TERMINATE CONTROL WIRING ACCORDING TO EMS VENDOR'S SHOP DRAWINGS.

NEW ZONE TEMPERATURE AND HUMIDITY SENSORS: INSTALL AND TERMINATE CONTROL

WIRING ACCORDING TO EMS VENDOR'S SHOP DRAWINGS.

DISCONNECT AND REMOVE EXISTING RTU EMS COMMUNICATION LOOP AND

ASSOCIATED COMPONENTS ACCORDING TO EMS VENDOR'S SHOP DRAWINGS.

INSTALL NEW RTU EMS COMMUNICATION LOOP AND ASSOCIATED COMPONENTS ACCORDING TO EMS VENDOR'S SHOP DRAWINGS. INSTALL AND WIRE TWO ALC AAR

CONTROLLERS IN EXISTING EMSP PANEL ACCORDING TO EMS SHOP DRAWINGS. PROVIDE ENCLOSURE FOR THE AAR CONTROLLERS IF THERE IS NOT ENOUGH ROOM IN THE EMSP PANEL. INSTALL AND TERMINATE EMS COMMUNICATION WIRING ACCORDING TO EMS SHOP DRAWINGS. SET ADDRESSES AT RTU CONTROL MODULES AND AAR CONTROLLERS ACCORDING TO EMS SHOP DRAWINGS.

ONCE EMS CONTROLS INSTALLATION IS COMPLETE AND WHILE STILL ON SITE CONTACT EMC TECHNICAL SUPPORT (608-822-3550, EXT. 302) FOR REMOTE CHECKOUT OF NEW EMS CONTROLS COMPONENTS AND TO RESOLVE ANY ISSUES FOUND.

#### KEYNOTES:

- 1 REMOVE EXISTING ROOFTOP UNIT AND ALL ACCESSORIES, EXCEPT CURB.
- 2 REMOVE GAS PIPING AND/OR CONDENSATE PIPING AS REQUIRED TO ALLOW REMOVAL OF EXISTING UNIT AND INSTALLATION AND CONNECTION TO NEW ROOFTOP UNIT.

  3 NOT USED.
- 4 INSTALL NEW OWNER-FURNISHED ADAPTER CURB ON EXISTING RTU CURB. INSTALL NEW OWNER FURNISHED ROOFTOP UNIT ON ADAPTER CURB.
- 5 EXTEND EXISTING GAS PIPING AND CONNECT TO NEW ROOFTOP UNIT.
- 6 EXISTING CIRCUIT BREAKER TO BE REMOVED AND REPLACED WITH SIZE INDICATED.
- 7 NEW TEMPERATURE/RELATIVE HUMIDITY SENSOR FURNISHED BY EMC. CONTRACTOR TO PULL NEW 18-4 WIRE (FURNISHED BY EMC) TO NEW SENSOR. FIELD VERIFY EXACT LOCATION OF EXISTING SENSOR.

NEW ROOFTOP UNIT IN EXISTING ROOFTOP UNIT LOCATION. DISCONNECT EXISTING POWER, EXISTING CONDUCTORS AND CONDUIT TO BE REUSED. MAINTAIN POWER FOR SERVICE RECEPTACLE AND RE-CONNECTION TO NEW UNIT. EXTEND WIRING AS REQUIRED.

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Date	No.	Description
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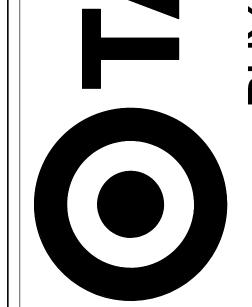


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MECHANICAL AND ELECTRICAL PLANS

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