

MECHANICAL EQUIPMENT TAG NOTES:

- A MECHANICAL CONTRACTOR SHALL INSTALL NEW LENNOX ROOFTOP UNIT AND ROOF CURB.
MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ROOF CURB FOR NEW ROOFTOP UNIT.
PROVIDE NEW ROOF OPENINGS AS NECESSARY TO ACCOMMODATE NEW ROOFTOP UNIT. REFER TO ROOFTOP UNIT SCHEDULE ON DWG. M1.1 FOR ADDITIONAL INFORMATION. THE WEIGHT OF THE NEW ROOFTOP UNIT IS 1500 LBS.
- B MECHANICAL CONTRACTOR SHALL INSTALL NEW LENNOX ROOFTOP UNIT AND ROOF CURB.
MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ROOF CURB FOR NEW ROOFTOP UNIT.
PROVIDE NEW ROOF OPENINGS AS NECESSARY TO ACCOMMODATE NEW ROOFTOP UNIT. REFER TO ROOFTOP UNIT SCHEDULE ON DWG. M1.1 FOR ADDITIONAL INFORMATION. THE WEIGHT OF THE NEW ROOFTOP UNIT IS 1400 LBS.
- C EXISTING EMPTY ABANDONED DUNNAGE TO REMAIN.
- D EXISTING ROOFTOP UNIT TO REMAIN SERVING HARBOR FREIGHT TOOLS' ADJACENT LEASE SPACE TO THE WEST.

NOTE:
GENERAL CONTRACTOR SHALL ENGAGE LANDLORD'S
ROOFING CONTRACTOR FOR ANY ROOFING WORK.

NOTE:
MECHANICAL CONTRACTOR SHALL PERFORM AN HVAC SYSTEM
CHECK PRIOR TO AND AFTER COMPLETION OF SIEMENS' SCOPE OF
WORK INCLUDING THE SMOKE DETECTOR "TEST/RESET" BUTTON.

NOTE:
MECHANICAL CONTRACTOR SHALL ENSURE ALL NEW
EXPOSED DUCTWORK IS SEALED CLEANLY IN THE EVENT IT
DOES NOT RECEIVE A FINAL PAINTED FINISH. COORDINATE
WORK WITH GENERAL CONTRACTOR AND HARBOR FREIGHT
TOOLS' PROJECT MANAGER.

NOTE:
MECHANICAL CONTRACTOR SHALL REFER TO THE SIEMENS
EMS DRAWING SET (EMS-1 THRU EMS-3) FOR COMPLETE
INTERFACE REQUIREMENTS.

NOTE:
MECHANICAL CONTRACTOR SHALL LEAVE ROOFTOP UNITS'
IN WIRED THERMOSTAT MODE UNTIL COMMISSIONING.

NOTE:
THERE IS (1) EXISTING ROOFTOP UNIT RESIDING OVER THE ADJACENT LEASE SPACE TO THE WEST OF
HARBOR FREIGHT TOOLS THAT IS TO REMAIN AND BE OPERATIONAL. MECHANICAL CONTRACTOR SHALL
ENSURE THIS EXISTING ROOFTOP UNIT IS IN PROPER WORKING CONDITION AND PROVIDE (1) YEAR
WARRANTY FOR EXISTING UNIT FROM DATE OF STORE OPENING. MECHANICAL CONTRACTOR SHALL ALSO
ENSURE THAT THE EXISTING THERMOSTATS SERVING THIS EXISTING UNIT ARE LOCATED WITHIN THE
ADJACENT LEASE SPACE TO THE WEST. RELOCATE THERMOSTATS SERVING THIS ROOFTOP UNIT TO
ADJACENT LEASE SPACE IF NECESSARY. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
CONTACT ARCHITECT AND/OR ENGINEER OF RECORD IF PROBLEMS ARISE INCLUDING INABILITY TO BRING
EXISTING UNITS TO REMAIN OPERATIONAL OR ANY EXCESSIVE COSTS ASSOCIATED WITH THIS WORK.

NOTE:
MECHANICAL CONTRACTOR SHALL CUT AND CAP ANY EXISTING
DUCTWORK WHICH MAY ENTER INTO HARBOR FREIGHT TOOLS'
LEASE SPACE FROM EXISTING ROOFTOP UNIT LOCATED TO THE
WEST OF THE HARBOR FREIGHT TOOLS' LEASE SPACE. DUCTS
SHALL BE CAPPED TO THE WEST OF THE NEW DEMISING WALL.
FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.

NOTE:
MECHANICAL CONTRACTOR SHALL MOUNT EXHAUST FANS (EF-03 AND EF-04) 8 TO 10 FEET ABOVE FINISHED
FLOOR WITH ALL THREADED RODS AND VIBRATION ISOLATORS LOCATED ABOVE OFFICE CEILINGS. PROVIDE
FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF THE EXHAUST FAN. TRANSITION INLET AND OUTLET
OF EXHAUST FAN CONNECTIONS TO RECTANGULAR DUCT AS INDICATED ON THE MECHANICAL PLAN.
PROVIDE A MINIMUM OF 18" OF EXHAUST DUCTWORK AT THE INLET AND OUTLET OF THE EXHAUST FAN.
EXHAUST AIR DUCT TO TERMINATE AT FACE OF OFFICE WALL WITH NEW EXHAUST GRILLE 'A' FLUSH TO
WALL. GRILLE TO BE LOCATED 2 FEET BELOW STRUCTURE.
THERMOSTATS CONTROLLING THE EXHAUST FANS SHALL BE LOCATED BEHIND THE DOORS AND THE POWER
AND SPEED CONTROL SWITCH ASSOCIATED WITH THE FAN SHALL BE LOCATED ABOVE THE CEILING
APPROXIMATELY 10' AWAY FROM THE INSIDE WALL. THE EXHAUST FANS SHALL BE LOCATED 1 FOOT ABOVE
THE CEILING OVER THE ENTRY DOOR INTO THE ROOM FOR EASE OF MAINTENANCE. NOTE: GRILLES TO BE
CENTERED OVER THE DOORS WHEN POSSIBLE. ALL GRILLES TO BE AT THE SAME ELEVATION.

NOTE:
EMS TOUCHPAD LOCATED IN MANAGERS
OFFICE. REFER TO MECHANICAL GENERAL NOTE
#5 ON THIS DWG. FOR ADDITIONAL INFORMATION

NOTE:
MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING UNUSED MECHANICAL EQUIPMENT,
UNIT HEATERS, EXHAUST FAN(S), DUCTWORK, DIFFUSER(S), ETC., COMPLETELY UNLESS
OTHERWISE NOTED TO REMAIN. GENERAL CONTRACTOR SHALL ENGAGE LANDLORD'S ROOFING
CONTRACTOR FOR ALL ROOFING WORK. MECHANICAL CONTRACTOR SHALL COORDINATE WITH
ELECTRICAL CONTRACTOR TO DISCONNECT ELECTRICAL SERVICE FROM EQUIPMENT BEING
REMOVED AND COORDINATE WITH PLUMBING CONTRACTOR FOR DISCONNECTING GAS FROM
EQUIPMENT BEING REMOVED.

NOTE:
MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL BURGLAR BARS IN THE
DUCT DROPS OF THE NEW ROOFTOP UNITS.

NOTE:
MECHANICAL CONTRACTOR SHALL REFER TO DRAWING
M1.1 FOR LABELING OF EQUIPMENT PROCEDURE.

MECHANICAL GENERAL NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, THE MECHANICAL CONTRACTOR SHALL
INCLUDE ALL NEEDED OFFSETS, CHANGES IN DIRECTION, TRANSITIONS, ETC. NEEDED FOR
COMPLETE AND OPERATIONAL SYSTEMS.
- PERFORM ALL WORK IN ACCORDANCE WITH THE, RULES & REGULATIONS OF THE
APPROPRIATE STATE AND LOCAL BUILDING CODES AND SUBTILES.
- QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE ENGINEER PRIOR
TO THE AWARDED OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF
THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
- IF CONFLICTS EXIST, PRIORITY OF LOCATION IN REFLECTED CEILING GRID SHALL BE AS
FOLLOWS FROM HIGH TO LOW: SPRINKLER, MECHANICAL, LIGHTS, AND FIRE ALARM DEVICES
(AS APPLICABLE).
- SENSORS AS MANUFACTURED BY SIEMENS. MECHANICAL CONTRACTOR SHALL LABEL EACH
SENSOR APPROPRIATELY TO THE CORRESPONDING ROOFTOP UNIT IT SERVES. TOUCHPAD
SHALL BE LOCATED IN THE MANAGER'S OFFICE. MECHANICAL CONTRACTOR SHALL
COORDINATE WITH ELECTRICAL CONTRACTOR.

MECHANICAL GENERAL NOTES (CONTINUED):

- MECHANICAL CONTRACTOR SHALL PROVIDE AN AIR BALANCE REPORT TO VERIFY THAT THE
HVAC EQUIPMENT IS FULLY OPERATIONAL. AIR BALANCE REPORT SHALL BE PREPARED BY A
THIRD PARTY HIRED BY THE GENERAL CONTRACTOR. PAYMENT OF ALL COSTS FOR TESTING
SHALL BE MADE BY THE MECHANICAL CONTRACTOR. TURN OVER AIR BALANCE REPORT TO
HARBOR FREIGHT TOOLS' GENERAL CONTRACTOR FOR DISTRIBUTION. REFER TO
MECHANICAL SPECIFICATIONS ON DWG. M1.3 FOR ADDITIONAL INFORMATION REGARDING
TESTING AND BALANCING.
- MECHANICAL CONTRACTOR ENSURE THERE ARE FILTERS IN ALL ROOFTOP UNITS DURING
CONSTRUCTION AND SHALL INSTALL NEW FILTERS DURING CONSTRUCTION AND REPLACE
ALL FILTERS PRIOR TO TURNOVER AND DATE ALL FILTERS WITH INSTALL DATE.
- MECHANICAL CONTRACTOR SHALL RUN ALL DUCTWORK AS HIGH AS POSSIBLE; MINIMUM OF
12'-6" A.F.F.
- MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF SPACE
TEMPERATURE SENSORS, RELATIVE HUMIDITY SENSOR AND CARBON DIOXIDE SENSORS
WITH SALES FLOOR FIXTURES AND GENERAL CONTRACTOR PRIOR TO INSTALLING
SENSORS.
- THE MECHANICAL CONTRACTOR SHALL BE ON SITE AS THE EMS COMMISSIONING IS
BEING PERFORMED TO ENSURE ALL THE REQUIREMENTS ARE RESPONDED TO IF NOT
PERFORMING CORRECTLY.
- MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ROOF CURBS COMPLETE WITH
BURGLAR BARS FOR ROOFTOP UNITS. MECHANICAL CONTRACTOR SHALL CONFIRM ROOF
CURB HEIGHT, ROOF SLOPE, ETC. TO ORDER PROPER ROOF CURB.

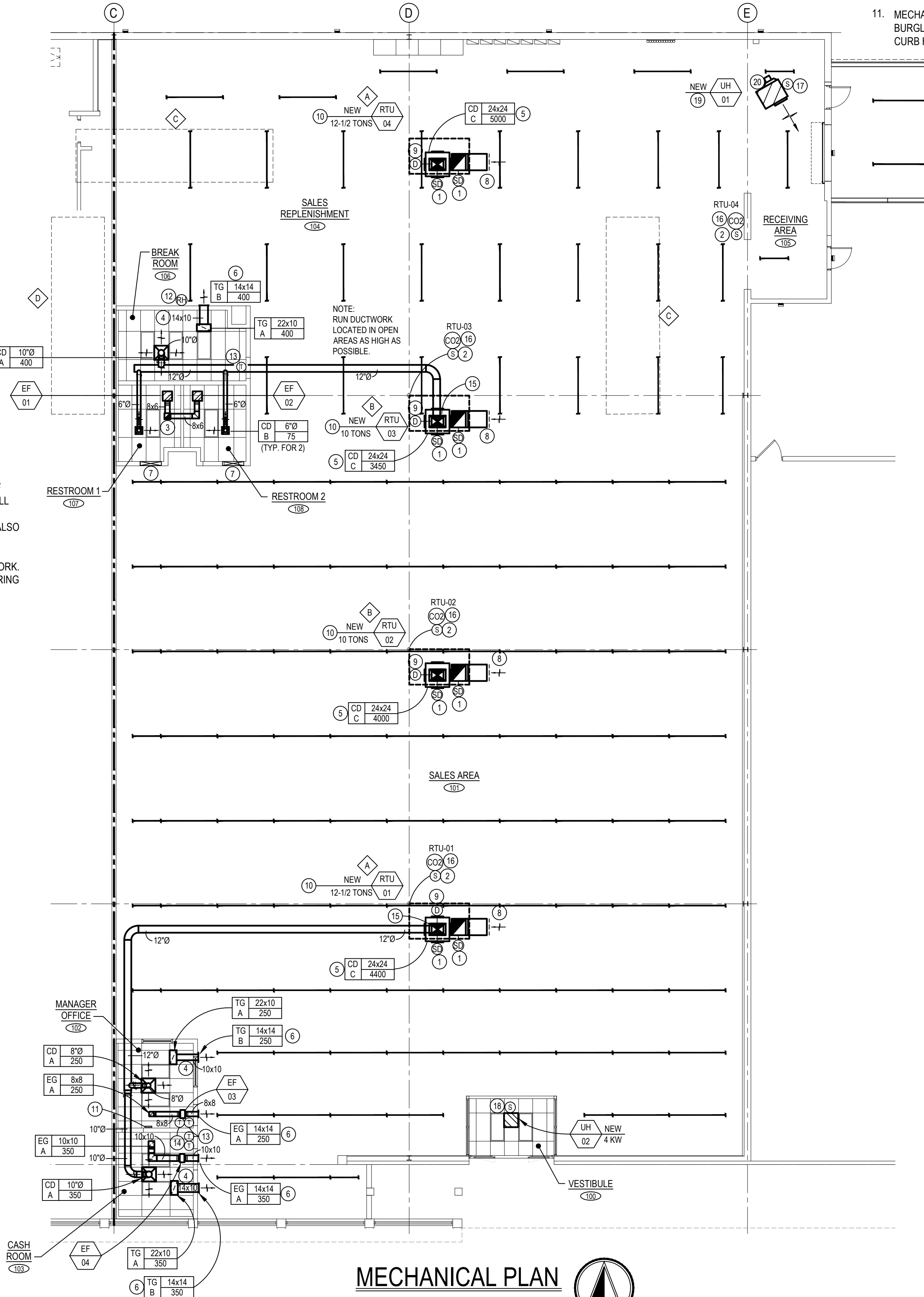
MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
SA	SUPPLY AIR
EA	EXHAUST AIR
EF	EXHAUST FAN
EG	EXHAUST GRILLE
CD	CEILING DIFFUSER
OA	OUTSIDE AIR
RA	RETURN AIR
TG	TRANSFER GRILLE
RTU	ROOFTOP UNIT
AFF	ABOVE FINISH FLOOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
LL	LANDLORD
⑩	DUCT TEMPERATURE SENSOR
⑪	THERMOSTAT (MTD. 4'-0" AFF)
⑫	SPACE TEMPERATURE SENSOR (AS NOTED)
⑬	SMOKE DETECTOR
⑭	RELATIVE HUMIDITY
⑮	FLEXIBLE DUCT (8'-0" MAX. LENGTH)
⑯	FLEXIBLE DUCT CONNECTOR
⑰	MANUAL VOLUME DAMPER
⑱	ELBOW W/ DBL THICKNESS TURNING VANES
⑲	FRESH RETURN EXHAUST AIR DUCT
⑳	SUPPLY AIR DUCT
E.S.P.	EXTERNAL STATIC PRESSURE

MECHANICAL PLAN TAG NOTES:

- LENNOX SHALL FURNISH AND INSTALL SMOKE DETECTORS IN THE SUPPLY AND RETURN AIR
DUCTS. MECHANICAL CONTRACTOR SHALL FURNISH, INSTALL AND WIRE REMOTE TEST
STATION WITH AUDIO VISUAL ALARM SYSTEM SENSOR MODEL RTS2-AIS NEXT TO THE PHONE
BOARD OR AT A LOCATION APPROVED BY THE AUTHORITY HAVING JURISDICTION. MECHANICAL
CONTRACTOR SHALL PROVIDE CONTROL WIRING TO RTU AND INTERLOCKING WIRING TO
OTHER DUCT DETECTORS AS REQUIRED FOR GLOBAL SHUT-DOWN. MECHANICAL
CONTRACTOR SHALL WIRE DETECTORS TO FIRE ALARM SYSTEM (IF REQUIRED). SEE DUCT
DETECTOR DETAIL ON DRAWING M1.2 FOR WIRING.
- SPACE TEMPERATURE SENSOR MOUNTED ON COLUMN AT 7'-0" A.F.F.
- 8x8 EXHAUST AIR DUCT RISER THRU ROOF IN PRE-FAB INSULATED ROOF CURB TO GOOSENECK
WITH BIRDSCREEN. COORDINATE ROOF OPENING AND ROOFING REPAIR WITH LANDLORD AND
LANDLORD'S ROOFING CONTRACTOR.
- MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL TRANSFER AIR DUCT WITH 1" THICK
ACOUSTIC LINING.
- MECHANICAL CONTRACTOR SHALL TRANSITION SUPPLY AIR DUCT IN DROP AND CONNECT TO
DROP DIFFUSER SYSTEM. MOUNT DROP DIFFUSER SYSTEM AS HIGH AS POSSIBLE. REFER TO
RTU DROP BOX DIFFUSER DETAIL ON DWG. M1.2 FOR ADDITIONAL INFORMATION. OFFSET DROP
DIFFUSER SYSTEM AS NECESSARY TO AVOID LIGHTS.
- MOUNT TRANSFER AIR AND/OR EXHAUST AIR GRILLE ON WALL AS HIGH AS POSSIBLE.
APPROXIMATELY 2 FEET BELOW STRUCTURE. MECHANICAL CONTRACTOR SHALL FURNISH AND
INSTALL 14"x14"x12" PLENUM BOX BEHIND GRILLE. MECHANICAL CONTRACTOR SHALL EXTEND
AND CONNECT TRANSFER OR EXHAUST AIR DUCT INTO BACK OF PLENUM BOX.
- 1" TOTAL FREE AREA BETWEEN FLOORING AND BOTTOM OF DOOR. UNDERCUT DOOR BY
GENERAL CONTRACTOR.
- EXTEND RETURN AIR DUCT, FULL SIZE, WITH ELBOW AS HIGH AS POSSIBLE. REFER TO RTU
DROP BOX DIFFUSER DETAIL ON DWG. M1.2. COVER RETURN AIR DUCT OPENING WITH 1"x1"
WIRE MESH SCREEN. FURNISH AND INSTALL RETURN AIR DUCT WITH 1" THICK ACOUSTIC
LINING.
- DUCT TEMPERATURE SENSOR, MOUNTED IN BOTTOM OF MAIN SUPPLY AIR DUCT. REFER TO
THE SIEMENS EMS DRAWING SET (EMS-1 THRU EMS-3) FOR MORE INFORMATION.
- ROOFTOP UNIT DIGITAL ZONE CONTROLLER. REFER TO THE SIEMENS EMS DRAWING SET
(EMS-1 THRU EMS-3) FOR MORE INFORMATION.
- EMS TOUCHPAD. COORDINATE WITH ELECTRICAL CONTRACTOR AND EMS DRAWINGS FOR
MORE INFORMATION.
- RELATIVE HUMIDITY SENSOR MOUNTED ON COLUMN AT 7'-0" A.F.F. NOTE: REFER TO SIEMENS
EMS DRAWINGS SET FOR ADDITIONAL INFORMATION.
- THERMOSTAT MOUNTED ON WALL AT 4'-0" A.F.F. TO CONTROL DIFFUSER.
- THERMOSTAT MOUNTED ON WALL AT 4'-0" A.F.F. TO EXHAUST FAN.
- EXTEND AND CONNECT NEW SUPPLY AIR BRANCH DUCT. SIZE AS INDICATED ON PLAN, INTO
SUPPLY AIR DUCT MAIN PRIOR TO CONCENTRIC DIFFUSER. INSTALL OPPOSED BLADE DAMPER
BETWEEN BRANCH SUPPLY AIR DUCT TAKE-OFF AND DROP BOX DIFFUSER.
- CARBON DIOXIDE SENSOR MOUNTED ON COLUMN AT 7'-0" A.F.F. REFER TO THE SIEMENS EMS
DRAWING SET (EMS-1 THRU EMS-3) FOR MORE INFORMATION.
- UH-01 SENSOR. REFER TO THE SIEMENS EMS DRAWING SET (EMS-1 THRU EMS-3) FOR MORE
INFORMATION.
- UH-02 SENSOR. REFER TO THE SIEMENS EMS DRAWING SET (EMS-1 THRU EMS-3) FOR MORE
INFORMATION.
- NEW GAS-FIRED UNIT HEATER. SUSPEND GAS UNIT HEATER WITH ALL THREADED RODS AND
NEOPRENE VIBRATION ISOLATORS FROM STRUCTURE FRAMING AS HIGH AS POSSIBLE.
COORDINATE IN FIELD. MOUNT AT 14'-0" A.F.F. MINIMUM.
- MECHANICAL CONTRACTOR SHALL EXTEND CONCENTRIC INTAKE/EXHAUST FLUE THRU ROOF
IN PRE-FAB INSULATED ROOF CURB. REFER TO GAS-FIRED UNIT HEATER DETAIL ON DWG. M1.2.
MECHANICAL CONTRACTOR SHALL COORDINATE ALL ROOFING WORK WITH LANDLORD AND
LANDLORD'S APPROVED ROOFING CONTRACTOR.

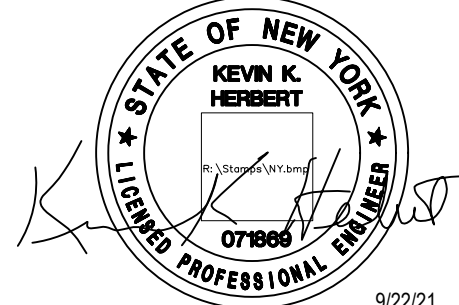
TONNAGE BREAKDOWN

TOTAL TONNAGE	45
TOTAL SQUARE FOOTAGE	15,172
SQUARE FOOT/TON	337



MECHANICAL PLAN

SCALE: 3/32" = 1'-0"



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HARBOR FREIGHT TOOLS

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REVISIONS

#	DATE	TYPE	1	2	3	4	5	6	7	8	9

MECHANICAL
PLAN

DATE 9/22/21

JOB NO. 20420

M1.0

SHEET NO.