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A. Because of the limited space available to install all of the mechanical work coordination between the various trades is of the utmost importance. This contractor shall coordinate with all other trades to ensure proper installation of any work.

B. Refer to the reflected ceiling plans for ceiling construction, ceiling grid layout, ceiling mounted devices, and coordinate exact location and mounting type of all air devices.

C. All ductwork upstream of terminal units shall be Medium Pressure (MP). All ductwork downstream of terminal units shall be Low Pressure (LP). Refer to specifications.

D. All ductwork dimensions indicated on plans are sheet metal sizes. All medium pressure ductwork shall be unlined, externally insulated. All low pressure ductwork shall be lined, externally insulated.

E. All mitered 90° rectangular elbows shall be furnished with turning vanes having maximum $c = 0.12$. All smooth round rectangular elbows shall have a throat radius greater than one third the duct width. All elbows shall be specified to meet the circumstances shall the throat radius be less than one third the duct width. Unless otherwise noted or specified.

F. Contractor shall furnish and install volume dampers for each duct take-off unless otherwise noted. See detail.

G. Maximum length of Low Pressure (LP) flexible ductwork shall be 8'-0". Round LP duct of lengths greater than 8'-0" shall be rigid round. Flexible duct sizes on plans shall be 12" and 18" unless otherwise noted.

H. Maximum length of Medium Pressure (MP) flexible ductwork shall be 2'-0". Round MP duct of lengths greater than 2'-0" shall be rigid round. Flexible duct sizes on plans shall be 12" and 18" unless otherwise noted.

I. All ductwork runouts to Air Terminal Units and diffusers shall be to the connection size unless otherwise noted.

J. Piping runouts to terminal units shall be 3/4" unless otherwise noted. Refer to reheats and diffusers for details.

K. Verify exact location of thermostats, humidistats, BAS sensors, and other exposed control sensors with architectural elevations and drawings before installation.

L. All controls, sensors, or equipment shall be installed and new wiring shall be done with two weeks in advance. Some premium time may be required.

M. Refer to piping details for final connections to branch line.

N. Provide service shaft off of main in major piping branch line. All control valves, risers and each building wing: A & B.

M01 PROPOSED GAS METER LOCATION: COORDINATE WITH LOCAL NATURAL GAS UTILITY COMPANY FOR METER SET SIZED FOR A TOTAL CONNECTED LOAD OF 6,247-CFH WITH A DELIVERY PRESSURE OF 2-P.S.I.G. PROVIDE CONCRETE METER PAD PER THE LOCAL GAS COMPANY'S REQUIREMENTS AND SIZE.

M02 2-INCH MAIN BUILDING NATURAL GAS LINE ABOVE GRADE WITH SHUT-OFF VALVE.

M03 2-INCH NATURAL GAS LINE IN OPEN TRENCH WITH STEEL GRATING, SEE CIVIL DRAWINGS. SUPPORT PIPING WITH STAINLESS STEEL UNITRUST FRAMING, MINIMUM 2-INCHES ABOVE TRENCH FLOOR.

M04 NATURAL GAS MAIN EXTENSION BELOW GRADE BY LOCAL GAS COMPANY.

M05 POUNDS TO INCHES GAS PRESSURE REGULATOR SIZED FOR EQUIPMENT CONNECTED LOAD AND INLET PRESSURE REQUIREMENTS.

M06 CONCRETE BASE FOR MECHANICAL EQUIPMENT, SEE CIVIL DRAWINGS. VERIFY SIZE WITH APPROVED SHOP DRAWINGS.

M07 DASHED LINES INDICATE RECOMMENDED SERVICE. COIL PULLING SPACE, FILTER REMOVAL SPACE, AND/OR AIRFLOW CLEARANCES.

M09 OUTSIDE AIR INTAKE LOUVER, SEE ARCHITECTURAL DRAWINGS.

M10 4-INCH HIGH CONCRETE HOUSEKEEPING PAD BELOW EQUIPMENT. PAD SIZE SHALL BE COORDINATED WITH APPROVED SHOP DRAWING AND SHALL BE A MINIMUM OF 6-INCHES LARGER ON ALL SIDES.

M12 BOILER AND DOMESTIC WATER HEATER FLUES UP THROUGH ROOF.

M13 SPACE AVAILABLE FOR GAS TEMPERATURE CONTROL PANEL(S) 24x36 PANELS

M47 CONNECT DOMESTIC WATER HEATER COMBUSTION AIR DUCTS TO TOP OF PLENUM BOX AT LOUVER.

M48 CONNECT HEATING HOT WATER BOILER COMBUSTION AIR DUCTS TO TOP OF PLENUM BOX AT LOUVER.

M53 (2)SETS OF 2" RS/1" RL THRU 24" ROUND PVC PIPE SLEEVE BELOW GRADE FROM LOWER LEVEL MECHANICAL ROOM TO VENTILATION DISCHARGE.

M54 30"x30" CONCRETE VENTILATION DISCHARGE MANHOLE WITH RAIN HOOD AND GRAVEL FLOOR. PROVIDE 30" WIDE CONCRETE TRENCH WITH REMOVABLE GRATING FOR REFRIGERANT PIPING.

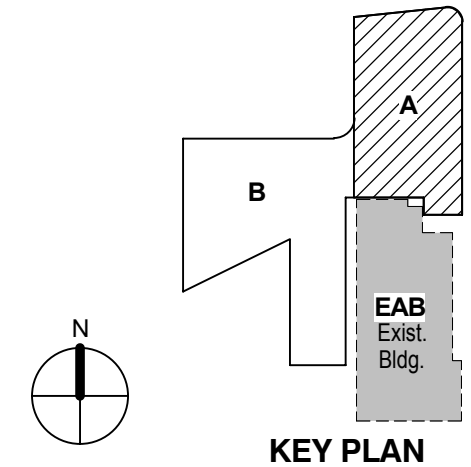
M55 30" WIDE PIPE TRENCH WITH REMOVABLE METAL GRATING, SEE CIVIL DRAWINGS.

M63 INSTALL BOILER SAFETY SWITCH AND SIGN. COORDINATE LOCATION WITH OWNER, ARCHITECT, AND ALL OTHER TRADES.

M70 REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL LOUVER INFORMATION.

M71 BLANK OFF ALL UNUSED PORTIONS OF LOUVER WITH INSULATED METAL PANEL PAINTED BLACK BEHIND LOUVER.

M72 PROVIDE 78"x18" INSULATED PLENUM BOX AT LOUVER FOR COMBUSTION AIR INTAKES. SLOPE BOTTOM OF PLENUM PER DETAIL ON SHEET M0501.



ENLARGED PLANS - MECHANICAL

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