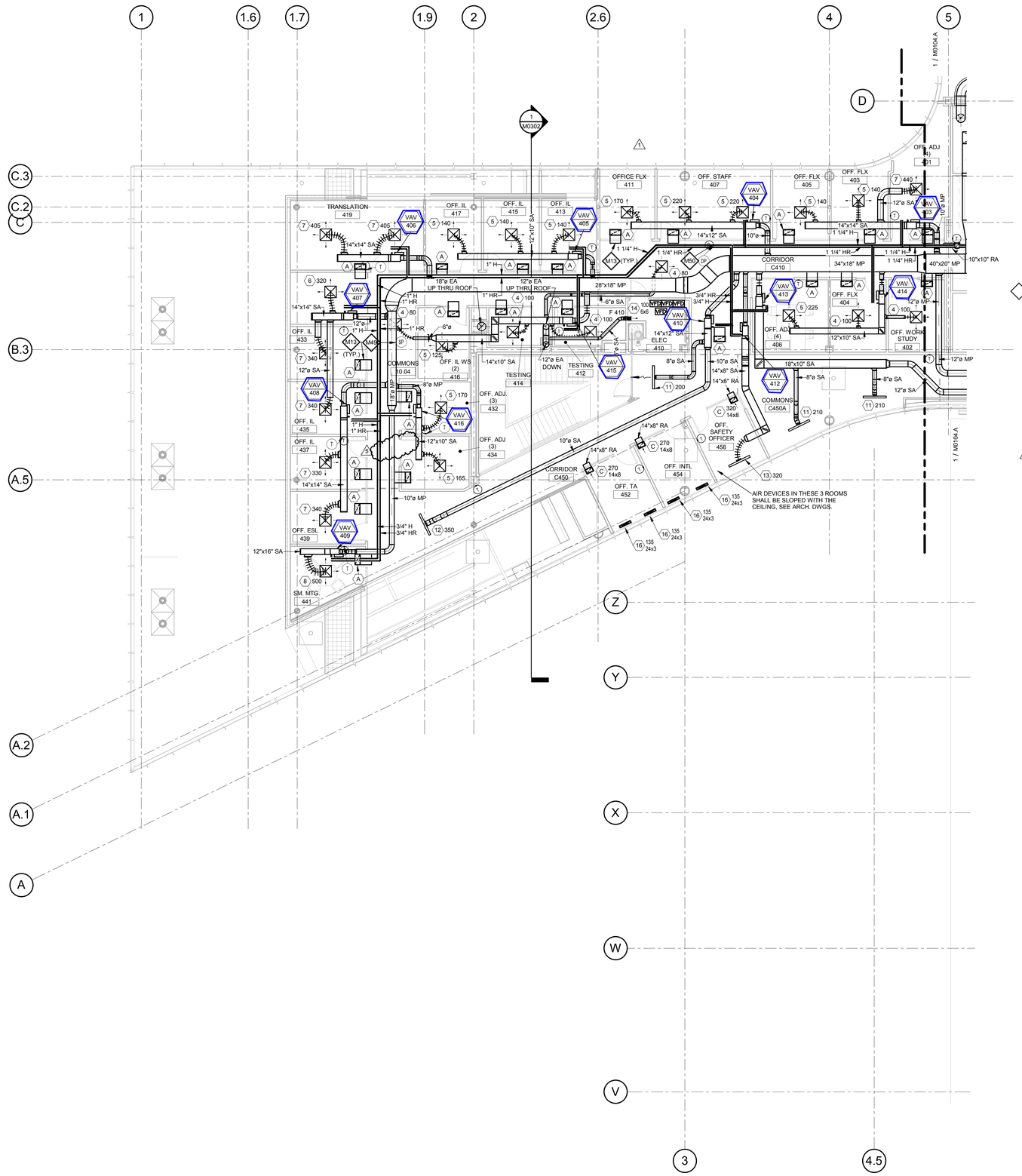

1 LEVEL 04 - AREA B - MECHANICAL PLAN

1/8" = 1'-0"

GENERAL NOTES:

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 prior to the fabrication and 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. See specifications.
E. All mitered 90° rectangular elbows shall be furnished with turning vanes having maximum c = 0.12. All smooth radius rectangular elbows shall have a throat radius greater than one half the duct width, unless furnished with splitter vanes. Under no 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 neck size of diffusers or as indicated. See specifications.
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 air Terminal Unit inlet size or as indicated. See specifications.
I. All ductwork runouts to Air Terminal Units and diffusers shall be the connection size unless otherwise noted.
J. Piping runouts to terminal units shall be 3/4" unless otherwise noted. Refer to reheat box schedule.
K. Verify exact location of thermostats, humidistats, BAS sensors, and other exposed control sensors with architectural elevations and drawings before installation.
L. Schedule systems or equipment shut downs required for new construction with owner two weeks in advance. Some preminuim time work may be required.
M. Refer to piping details for final connections to equipment.
N. Provide service shut-off valves in major piping branch lines. All connections to risers and each building wing; A & B.

KEYED NOTES

M13 LINED RETURN AIR TRANSFER DUCT, 22x10 TYPICAL UNLESS NOTED OTHERWISE.

M21 PROVIDE FIRE WRAP AROUND LAB EXHAUST DUCTWORK FROM RATED CHASE PENETRATION TO ROOF.

M28 BAS TEMPERATURE SENSOR TO MONITOR IT/TCOM SPACES. FCU CONTROLLED BY UNIT MOUNTED THERMOSTAT.

M44 AIRFLOW MEASURING STATION. KELE MODEL KOAMS FURNISHED WITH INLET BELL FOR PLENUM APPLICATIONS LOCATED IN MINIMUM OA DUCT OR RETURN AIR INLET ON EACH FLOOR.

M49 DUCT STATIC PRESSURE SENSOR.

M50 PIPING DIFFERENTIAL PRESSURE SENSOR.

M52 REMOVE EXISTING RETURN AIR LOUVER AND PORTION OF EXISTING DUCT. ROUTE NEW DUCT THROUGH EXISTING OPENING.

M67 LOCATION FOR REFRIGERANT PIPING FOR COOLER, SEE ARCHITECTURAL SPECIFICATIONS AND DRAWINGS. PIPING SHALL BE INSTALLED PER COOLER SUPPLIERS REQUIREMENTS.

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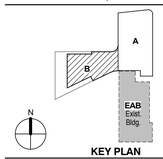
No.	Description	Date
5	ASI-043	20 DEC 2016
4	ASI-032	18 OCT 2016
3	ASI-009	01 AUG 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



KEY PLAN

Drawing Title:

LEVEL 04 AREA B FLOOR PLAN - MECHANICAL

Project No.: 04561.01 Checked by:

M0104.B

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