



10 NEW VAV'S
ON AHU-2

MECHANICAL NEW WORK PLAN -
AREA A
1/8" = 1'-0"

GENERAL NOTES:

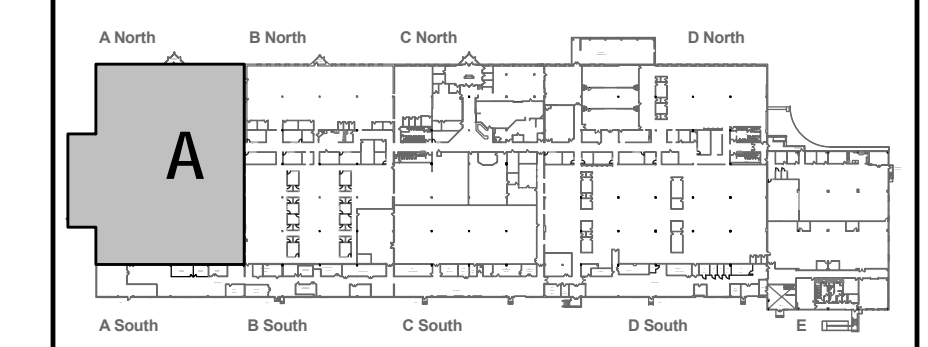
- A. ALL WORK SHALL BE INSTALLED WITHIN STRICT COMPLIANCE OF THE 2017 OHIO BUILDING CODE AND THE 2017 OHIO MECHANICAL CODE.
- B. DO NOT SCALE THE DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET, FITTING, AND COMPONENT. DO NOT USE THE PLANS FOR THE EXACT LOCATION OF EQUIPMENT, FIXTURES, DUCTWORK, OR PIPING. ARCHITECTURAL ITEMS SUCH AS WALLS AND OVERALL DIMENSIONS OF BUILDING COMPONENTS ARE TO BE OBTAINED FROM ARCHITECTURAL DRAWINGS WHEN AVAILABLE.
- C. ALL WORK IS TO BE ACCOMPLISHED WITHIN STRICT COMPLIANCE WITH THE PROJECT SCHEDULE AND THE PROJECT PHASING REQUIREMENTS.
- D. **RENO ONLY:** PRIOR TO BID, THE MECHANICAL CONTRACTOR SHALL PERFORM A DETAILED WALK THROUGH FIELD INSPECTION REVIEWING EXISTING CONDITIONS, STRUCTURE, DEVICE/EQUIPMENT LOCATIONS, AND SHALL MAKE ALL NECESSARY ALLOWANCES FOR ALL REQUIRED DEMOLITION AND NEW WORK PER CONSTRUCTION DOCUMENTATION.
- E. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.
- F. REFER TO DRAWINGS M200, M300 AND M400 FOR HVAC LEGEND, DETAILS, DIAGRAMS, AND SCHEDULES.
- G. CONTRACTOR SHALL CAREFULLY COORDINATE DUCTWORK AND PIPING PATHWAYS AND LOCATIONS WITH OTHER TRADES **AND EXISTING CONDITIONS**. ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE. CONNECTIONS TO THE SUPPLY AIR DEVICES MAY BE MADE WITH FLEXIBLE DUCTWORK, REFER TO THE DETAIL ON DRAWING M200 FOR FLEXIBLE DUCT CONNECTIONS. ALL CONDITIONS SHALL BE FIELD VERIFIED BEFORE ORDERING EQUIPMENT OR FABRICATED MATERIAL.
- H. CONTRACTOR SHALL PROVIDE ALL ROOF OR WALL NON-COMBUSTIBLE FRAMING AS REQUIRED TO INSTALL EQUIPMENT, PIPING AND DUCTWORK. COORDINATE NEW WORK WITH OTHER TRADES PRIOR TO BEGINNING CONSTRUCTION. NO WORK IS TO BE INSTALLED OR FABRICATED UNTIL AFTER THE PROJECT COORDINATION HAS BEEN APPROVED BY THE OWNER'S REPRESENTATIVE.
- I. INSTALL A MANUAL BALANCE DAMPER IN ALL BRANCH DUCTS, INCLUDING ALL SUPPLY AND EXHAUST GRILLERS.
- J. INSTALL A SHUT OFF VALVE IN ALL PIPING BRANCHES.
- K. ALL SQUARE THROATED ELBOWS SHALL HAVE AIRFLOW TURNING VANES AND SHALL ONLY BE USED WHEN RADIUS ELBOWS WILL NOT FIT.
- L. ALL ROUND BRANCH DUCT CONNECTIONS SHALL BE MADE WITH BELLMOUTH FITTINGS OR ANGLED TEES. STRAIGHT SPIN-IN TAP COLLARS SHALL NOT BE ACCEPTABLE.
- M. ALL DAMPERS AND CONTROL COMPONENTS THAT ARE LOCATED ABOVE CEILING SHALL BE INSTALLED WHERE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL PROVIDE ACCESS PANELS AS REQUIRED.
- N. ALL VALVES AND CONTROL COMPONENTS THAT ARE LOCATED ABOVE CEILING SHALL BE INSTALLED WHERE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED.
- O. ALL NEW VARIABLE AIR VOLUME TERMINAL UNITS ARE TO BE INSTALLED WHERE COMPONENTS ARE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL COORDINATE TO PROVIDE THE VAV UNIT WITH A CONTROL ENCLOSURE AND PIPE CONNECTIONS ON THE MOST ACCESSIBLE SIDE OF THE UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT LEFT TO RIGHT HAND CONFIGURATION. REFER TO THE APPLICABLE DETAIL ON DRAWING M200 FOR ADDITIONAL REQUIREMENTS.
- P. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHALL BE FABRICATED FROM GALVANIZED STEEL METAL, INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR GAUGE, REINFORCEMENT, AND SUPPORT. 2" W.G. PRESSURE CLASS FOR ALL DUCTWORK. ALL JOINTS AND SEAMS SHALL BE SEALED AND FASTENED AND MADE AIRTIGHT IN ACCORDANCE OF CHAPTER 13 OF THE **IBC**.
- Q. **RENO ONLY:** CONTRACTOR SHALL TAKE OVERALL CFM MEASUREMENTS ON ALL EXISTING DUCTWORK TO REMAIN PRIOR TO COMMENCING ANY WORK. INFORMATION GATHERED SHALL BE UTILIZED FOR REBALANCING SYSTEM. CONTRACTOR SHALL REBALANCE ALL SYSTEMS AT THE CONCLUSION OF THE PROJECT.
- R. **RENO ONLY:** CONTRACTOR TO VERIFY EXISTING SUPPLY AND RETURN PIPING SYSTEM, SIZE, AND PIPE TYPE PRIOR TO MAKING CONNECTIONS.
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- W. CONTRACTOR SHALL COORDINATE ALL REQUIRED ROOF OPENINGS FOR PIPING AND DUCTWORK WITH THE GENERAL CONTRACTOR.
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- Z. UL LISTED FIRESTOPPING SHALL BE USED AT ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR LOCATIONS OF RATED ASSEMBLIES. CONTRACTOR SHALL USE UL LISTED FIRESTOP SYSTEM METHODS FOR THROUGH-PENETRATION ASSEMBLIES - TYPICAL OF ALL FIRE RATED WALLS.

CODED NOTES:

- 1. ADJUST CEILING DEVICES FOR CEILING GRID CHANGES.
- 2. ROUTE DUCTWORK WHERE VAVS AND VALVES REMAIN ACCESSIBLE.
- 3. PROVIDE NEW VAV BOX AND ALL ASSOCIATED HANGERS, SUPPORTS, ETC.
- 4. RELOCATED THERMOSTAT.
- 5. REBALANCE SYSTEM.

KEY PLAN

NOTE: SEPARATE PERMIT WILL BE OBTAINED FOR THE ASSOCIATED TRADES AFTER THE GENERAL CONSTRUCTION PERMIT APPROVAL.





8 New VAV's

MECHANICAL NEW WORK PLAN - AREA B
1/8" = 1'-0"

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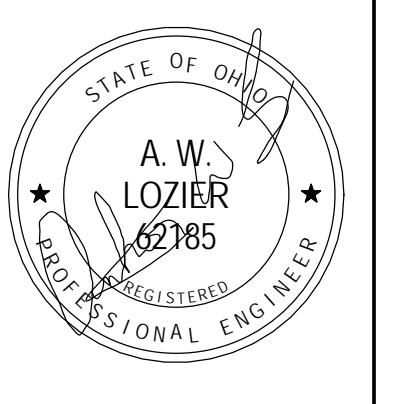
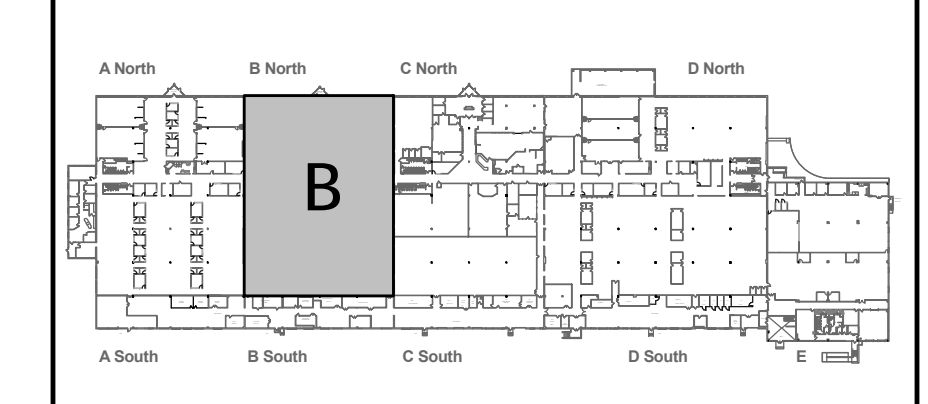
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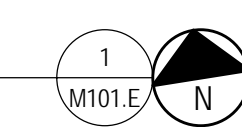
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ISSUED	DATE
PRICING SET	12/22/21
PERMIT/BID SET	01/05/22



MECHANICAL NEW WORK PLAN - AREA E
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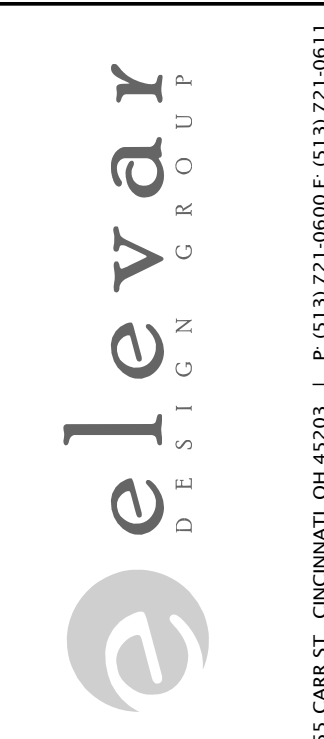
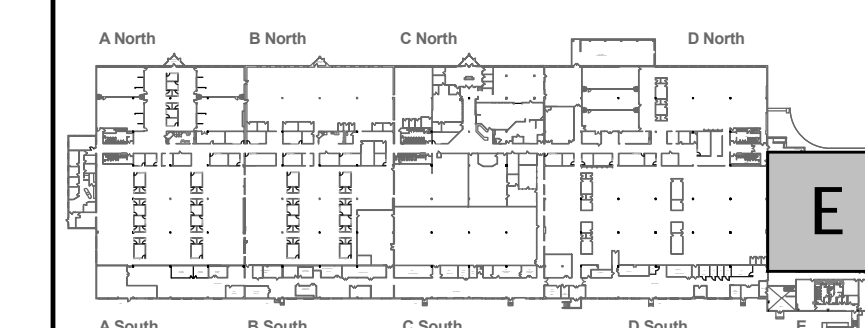
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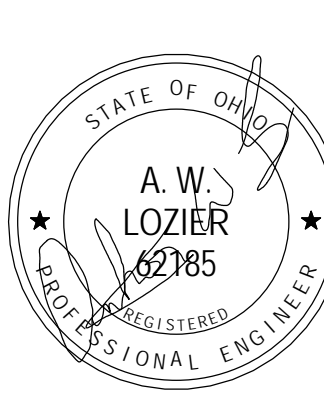
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BLUE ASH TECHNOLOGY CENTER
"OFFICE ALTERATIONS"
11450 GROOMS ROAD
BLUE ASH, OHIO 45242



ISSUED	DATE
PRICING SET	12/22/21
PERMIT/BID SET	01/05/22

SHEET TITLE	
MECHANICAL NEW WORK PLAN AREA E	
SCALE	COMM No
1/8" = 1'-0"	11221.07
DRAWN BY	DATE
MC	01/05/22
SHEET #	
M101.E	