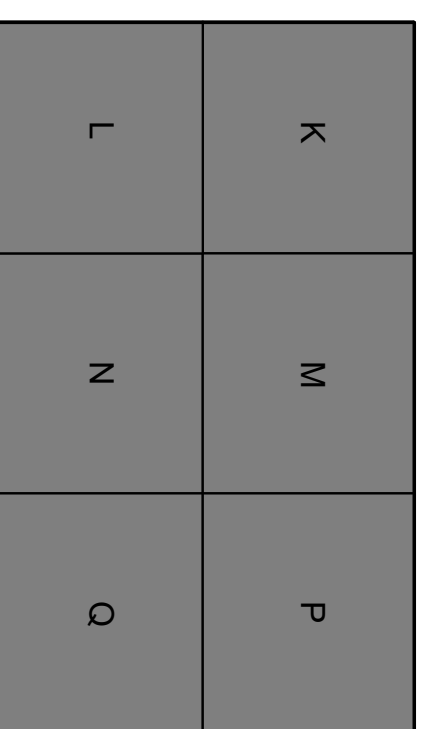


LEVEL 01 - HVAC PLAN LOWER

KEY PLAN



Audetek Does/VEG114 VEGA Americas, Mason Phase II Expansion/MEP23, 23007218.00, RVEG-C-0002 Mason Mfg Exp, C-1

M201

Project Manager: M. WALSH
 Designer: T. WAREHALL
 Checker: S. TOSSEY
 Issue Date: 02/26/2024
 Project Number: 23007218.00

VEGA MASON EXPANSION
 MASON RESEARCH AND DEVELOPMENT PARK
 MASON, OH
 LEVEL 01 - HVAC PLAN OVERALL

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BHDP ARCHITECTURE
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 SUITE 500
 CINCINNATI, OH 45202
 PHONE 513.271.1634

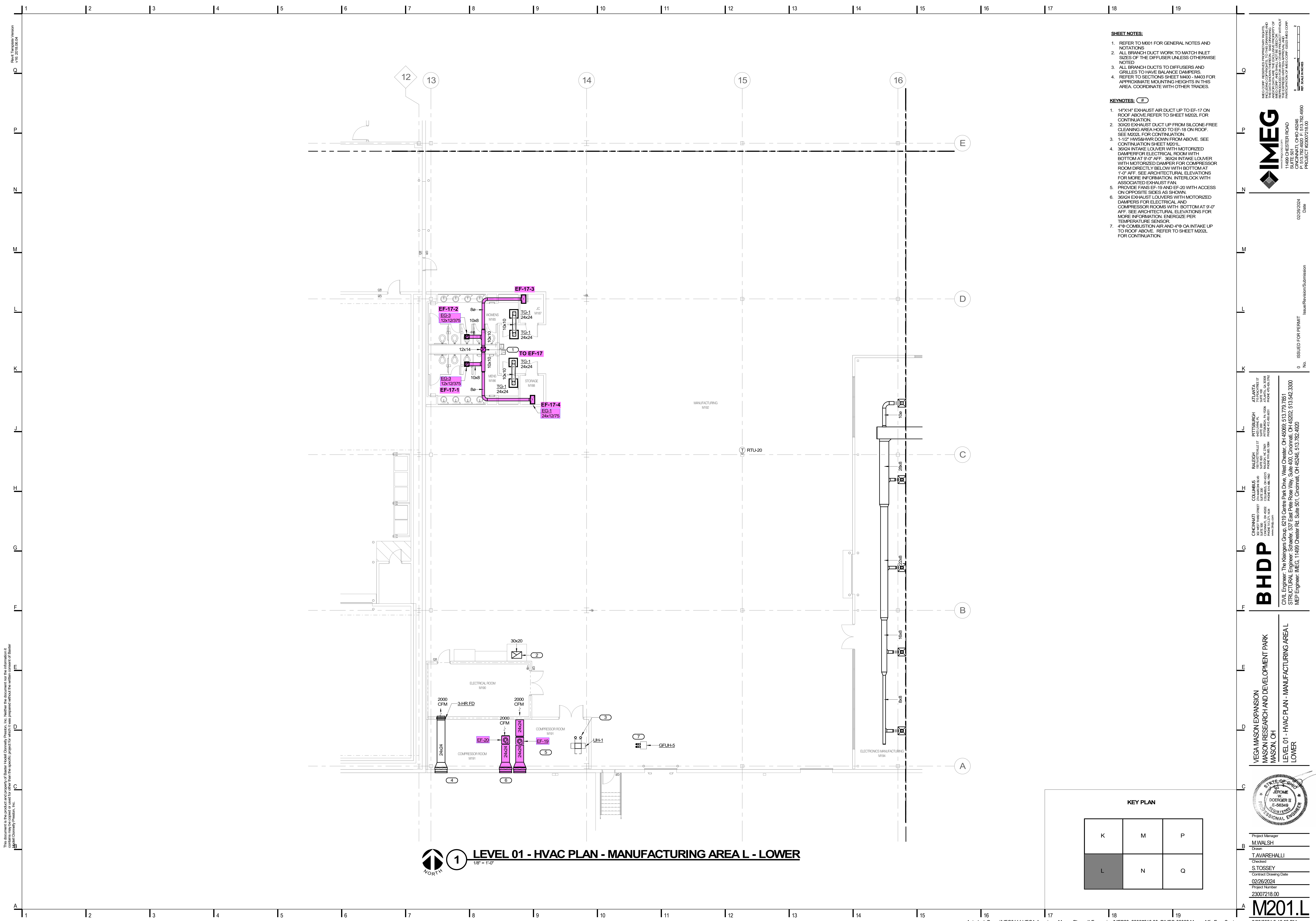
CIVIL Engineer: The Kleingers Group, 6219 Centre Park Drive, West Chester, OH 45069, 513.779.7851
 STRUCTURAL Engineer: Schaefer, 537 East Pete Rose Way, Suite 400, Cincinnati, OH 45202, 513.542.3300
 MEP Engineer: IMEG, 11499 Chester Rd. Suite 501, Cincinnati, OH 45246, 513.782.4920

3	BULLETIN NO. 3	08/21/2024
2	BULLETIN NO. 2	07/11/2024
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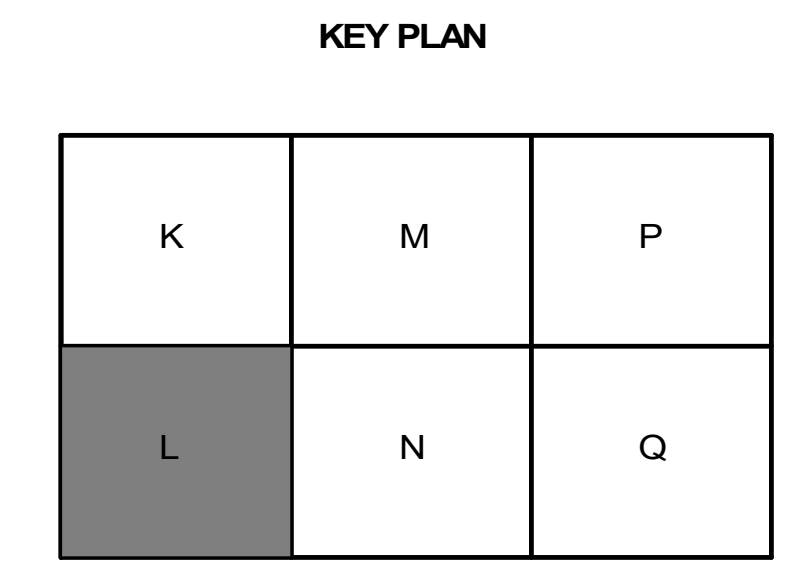
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1 LEVEL 01 - HVAC PLAN - MANUFACTURING AREA L - LOWER
1/8" = 1'-0"

- SHEET NOTES:**
- REFER TO M001 FOR GENERAL NOTES AND NOTATIONS
 - ALL BRANCH DUCT WORK TO MATCH INLET SIZES OF THE DIFFUSER UNLESS OTHERWISE NOTED
 - ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE BALANCE DAMPERS.
 - REFER TO SECTIONS SHEET M400 - M403 FOR APPROXIMATE MOUNTING HEIGHTS IN THIS AREA. COORDINATE WITH OTHER TRADES.

- KEYNOTES:**
- 14"x14" EXHAUST AIR DUCT UP TO EF-17 ON ROOF ABOVE. REFER TO SHEET M202L FOR CONTINUATION.
 - 30"x30" EXHAUST DUCT UP FROM SILCONE-FREE CLEANING AREA HOOD TO EF-18 ON ROOF. SEE M202L FOR CONTINUATION.
 - 1-1/2" HVISH-HWR DOWN FROM ABOVE. SEE CONTINUATION SHEET M201L.
 - 30"x24" INTAKE LOUVER WITH MOTORIZED DAMPER FOR ELECTRICAL ROOM WITH BOTTOM AT 9'-0" AFF. 30"x24" INTAKE LOUVER WITH MOTORIZED DAMPER FOR COMPRESSOR ROOM DIRECTLY BELOW WITH BOTTOM AT 1'-0" AFF. SEE ARCHITECTURAL ELEVATIONS FOR MORE INFORMATION. INTERLOCK WITH ASSOCIATED EXHAUST FAN.
 - PROVIDE FANS EF-19 AND EF-20 WITH ACCESS ON OPPOSITE SIDES AS SHOWN.
 - 30"x36" EXHAUST LOUVERS WITH MOTORIZED DAMPERS FOR ELECTRICAL AND COMPRESSOR ROOMS WITH BOTTOM AT 9'-0" AFF. SEE ARCHITECTURAL ELEVATIONS FOR MORE INFORMATION. ENERGIZE PER TEMPERATURE SENSOR.
 - 4"Ø COMBUSTION AIR AND 4"Ø OA INTAKE UP TO ROOF ABOVE. REFER TO SHEET M202L FOR CONTINUATION.



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PROJECT #2307218.00

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SITE NO. 23007218.00
PROJECT #2307218.00

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SITE NO. 23007218.00
PROJECT #2307218.00

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SITE NO. 23007218.00
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STRUCTURAL Engineer: Schaefer, 537 East Pale Rose Way, Suite 400, Cincinnati, OH 45202, 513.542.3300
MEP Engineer: IMEG, 11499 Chester Rd, Suite 501, Cincinnati, OH 45246, 513.782.4920

VEGA MASON EXPANSION
MASON RESEARCH AND DEVELOPMENT PARK
MASON, OH
LEVEL 01 - HVAC PLAN - MANUFACTURING AREA L
LOWER

STATE OF OHIO
JEROME
DOERGER II
E-56349
PROFESSIONAL ENGINEER

Project Manager
M.WALSH

Drawn
T.AVAREHALLI

Checked
S.STOSSEY

Contract Drawing Date
02/26/2024

Project Number
23007218.00

M201.L

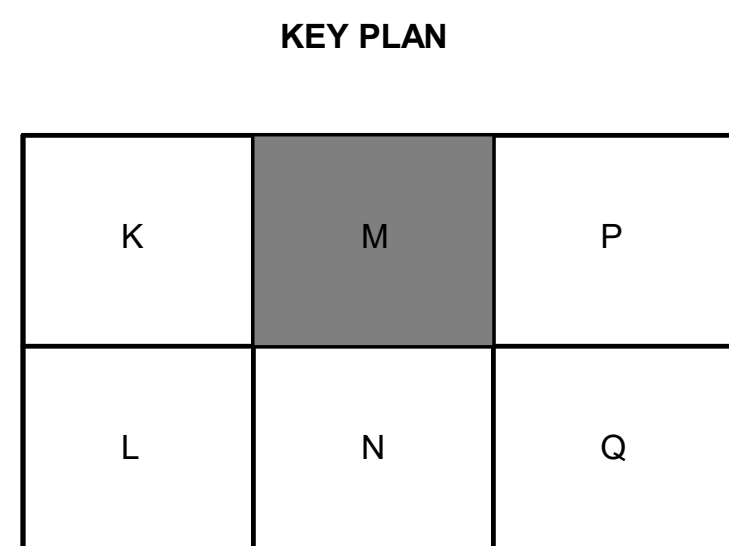
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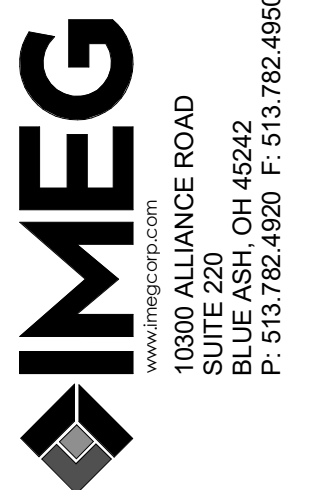
5 LEVEL 01 - HVAC PLAN - MANUFACTURING AREA M - LOWER
 1/8" = 1'-0"

- SHEET NOTES:**
- REFER TO M001 FOR GENERAL NOTES AND NOTATIONS
 - ALL BRANCH DUCT WORK TO MATCH INLET SIZES OF THE DIFFUSER UNLESS OTHERWISE NOTED
 - ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE BALANCE DAMPERS.
 - REFER TO SECTIONS SHEET M400 - M403 FOR APPROXIMATE MOUNTING HEIGHTS IN THIS AREA. COORDINATE WITH OTHER TRADES.

- KEYNOTES:**
- 14"x16" EXHAUST AIR DUCT UP TO EF-15 ON ROOF ABOVE. REFER TO SHEET M202M FOR CONTINUATION.
 - 1 HOT WATER SUPPLY AND RETURN FROM WEST PART OF OFFICE AREA. REFER TO SHEET M201L FOR CONTINUATION.
 - PROVIDE DUCT-MOUNTED STATIC PRESSURE SENSOR AT LOCATION SHOWN FOR CONTROL OF RTU-15 SUPPLY FAN(S).
 - ROUTE 18X14 SUPPLY DUCT UP AND ABOVE CEILING IN THIS AREA. COORDINATE WITH OTHER TRADES.
 - PROVIDE A CIRCUIT SETTER VALVE BALANCED FOR 0.5 GPM



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DATE: 07/11/2024
 02/22/2024
 02/26/2024

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 COLUMBUS, OH 43215
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BHDP ARCHITECTURE
 200 W. THIRD STREET
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 PHONE 704.377.1800

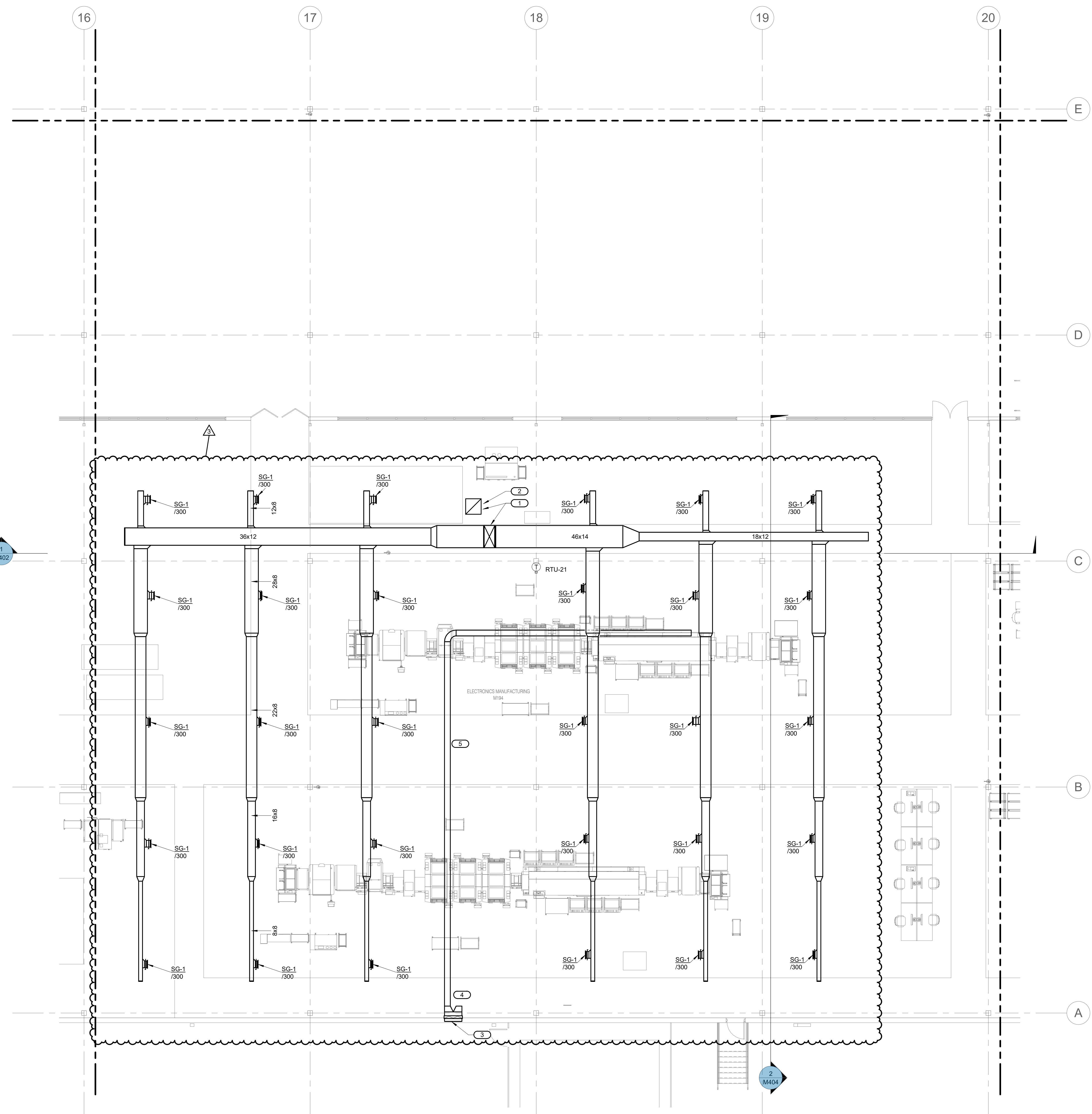
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VEGA MASON EXPANSION
 MASON RESEARCH AND DEVELOPMENT PARK
 MASON, OH
 LEVEL 01 - HVAC PLAN - MANUFACTURING AREA M
 LOWER

Project Manager
M. WALSH
 Drawn
T. AVAREHALLI
 Checked
S. STOSSEY
 Scale/Sheet Drawing Date
 02/26/2024
 Project Number
 23007218.00

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1 LEVEL 01 - HVAC PLAN - MANUFACTURING AREA N - LOWER
1/8" = 1'-0"

- SHEET NOTES:**
- REFER TO M001 FOR GENERAL NOTES AND NOTATIONS
 - ALL BRANCH DUCT WORK TO MATCH INLET SIZES OF THE DIFFUSER UNLESS OTHERWISE NOTED
 - ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE BALANCE DAMPERS.
 - REFER TO SECTIONS SHEET M400 - M403 FOR APPROXIMATE MOUNTING HEIGHTS IN THIS AREA. COORDINATE WITH OTHER TRADES.
- KEYNOTES:**
- SUPPLY / RETURN DUCT UP TO RTU-21 LOCATED ON ROOF. REFER TO SHEETS M202
 - RETURN AIR DUCT SHALL PENETRATE DOWN INTO ELECTRONICS MANUFACTURING M194 AND TERMINATE +/- 12" BELOW MEZZANINE FLOOR. PROVIDE WITH SOUND LINED RETURN BOOT.
 - 36x24 EXHAUST LOUVER WITH MOTORIZED DAMPER FOR EXHAUST OF REFLOW OVEN. SEE ARCHITECTURAL DRAWINGS FOR LOUVER ELEVATION.
 - ROUTE EXHAUST DUCT WITH BOTTOM AT 10'-0" A.F.F. EXTEND DUCT TO EXHAUST CONNECTION POINT ON REFLOW OVEN. LOCATE TIE-IN AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

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P: 513.782.4920 F: 513.782.4650
PROJECT #2307218.00

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VEGA MASON EXPANSION
MASON RESEARCH AND DEVELOPMENT PARK
MASON, OH
LEVEL 01 - HVAC PLAN - MANUFACTURING AREA N - LOWER

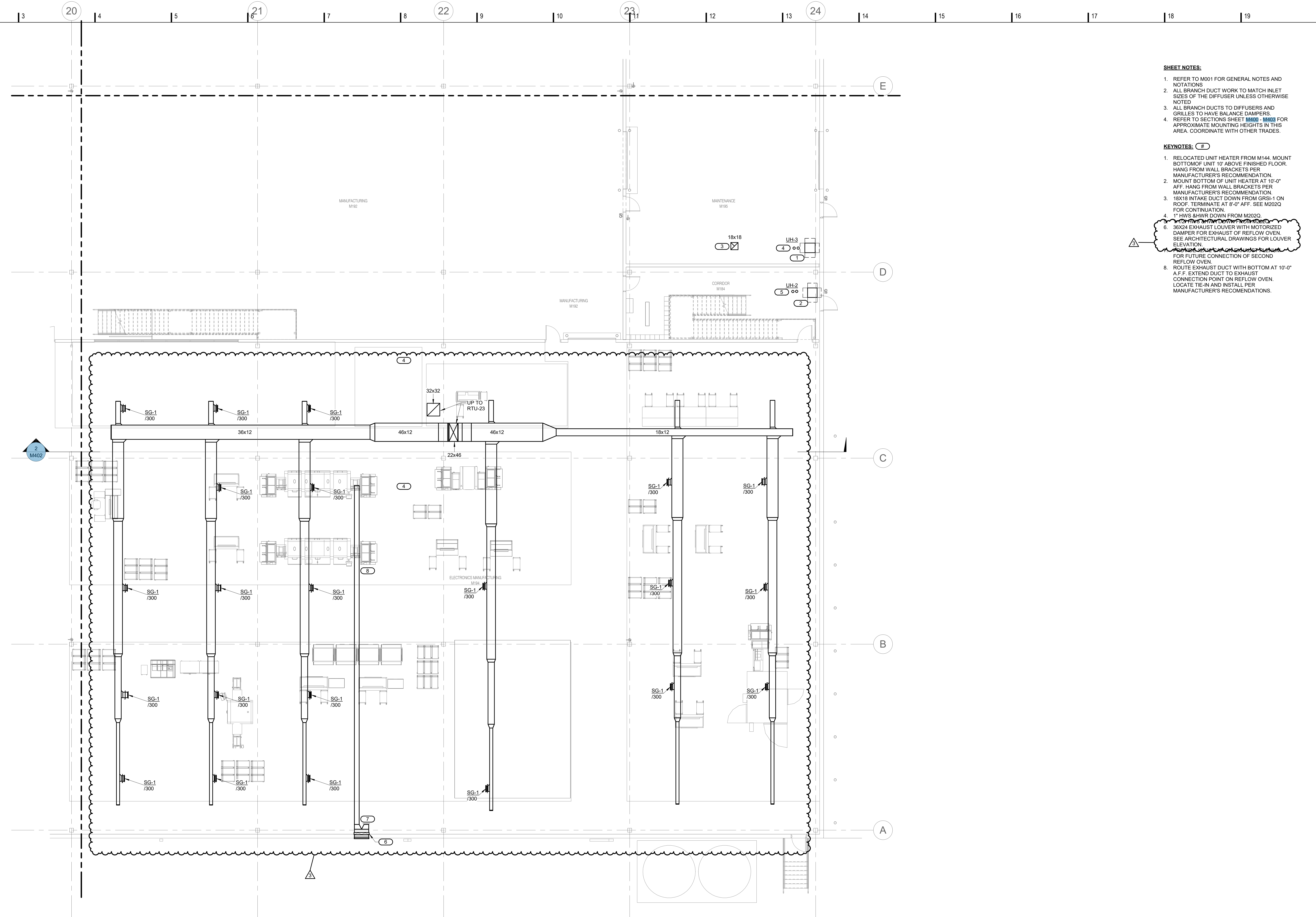
KEY PLAN

K	M	P
L	N	Q

Project Manager
M. WALSH
Drawn
T. AVAREHALLI
Checked
S. TOSSEY
Contract Drawing Date
02/26/2024
Project Number
2307218.00

M201.N

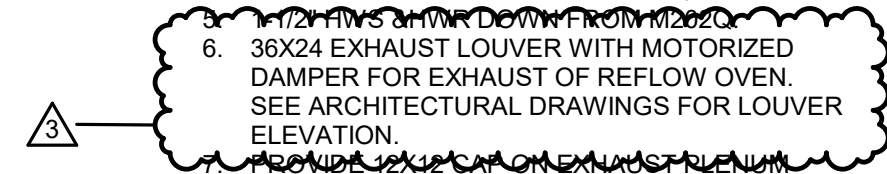
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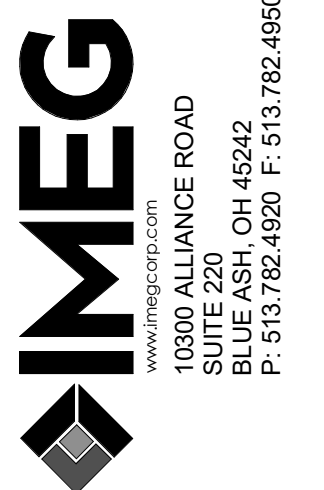
1 LEVEL 01 - HVAC PLAN - MANUFACTURING AREA Q - LOWER
1/8" = 1'-0"

- SHEET NOTES:**
- REFER TO M001 FOR GENERAL NOTES AND NOTATIONS
 - ALL BRANCH DUCT WORK TO MATCH INLET SIZES OF THE DIFFUSER UNLESS OTHERWISE NOTED
 - ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE BALANCE DAMPERS.
 - REFER TO SECTIONS SHEET M400 - M403 FOR APPROXIMATE MOUNTING HEIGHTS IN THIS AREA. COORDINATE WITH OTHER TRADES.

- KEYNOTES: (#)**
- RELOCATED UNIT HEATER FROM M144. MOUNT BOTTOM OF UNIT 10' ABOVE FINISHED FLOOR. HANG FROM WALL BRACKETS PER MANUFACTURER'S RECOMMENDATION.
 - MOUNT BOTTOM OF UNIT HEATERS AT 10'-0" AFF. HANG FROM WALL BRACKETS PER MANUFACTURER'S RECOMMENDATION.
 - 18X18 INTAKE DUCT DOWN FROM GRS-1 ON ROOF. TERMINATE AT 8'-0" AFF. SEE M202Q FOR CONTINUATION.
 - 1" HWS SHWR DOWN FROM M202Q.
 - 36X24 EXHAUST LOUVER WITH MOTORIZED DAMPER FOR EXHAUST OF REFLOW OVEN. SEE ARCHITECTURAL DRAWINGS FOR LOUVER ELEVATION.
 - FOR FUTURE CONNECTION OF SECOND REFLOW OVEN.
 - ROUTE EXHAUST DUCT WITH BOTTOM AT 10'-0" A.F.F. EXTEND DUCT TO EXHAUST CONNECTION POINT ON REFLOW OVEN. LOCATE TIE-IN AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



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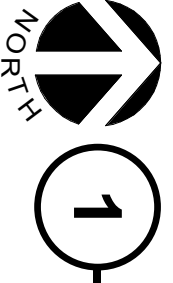
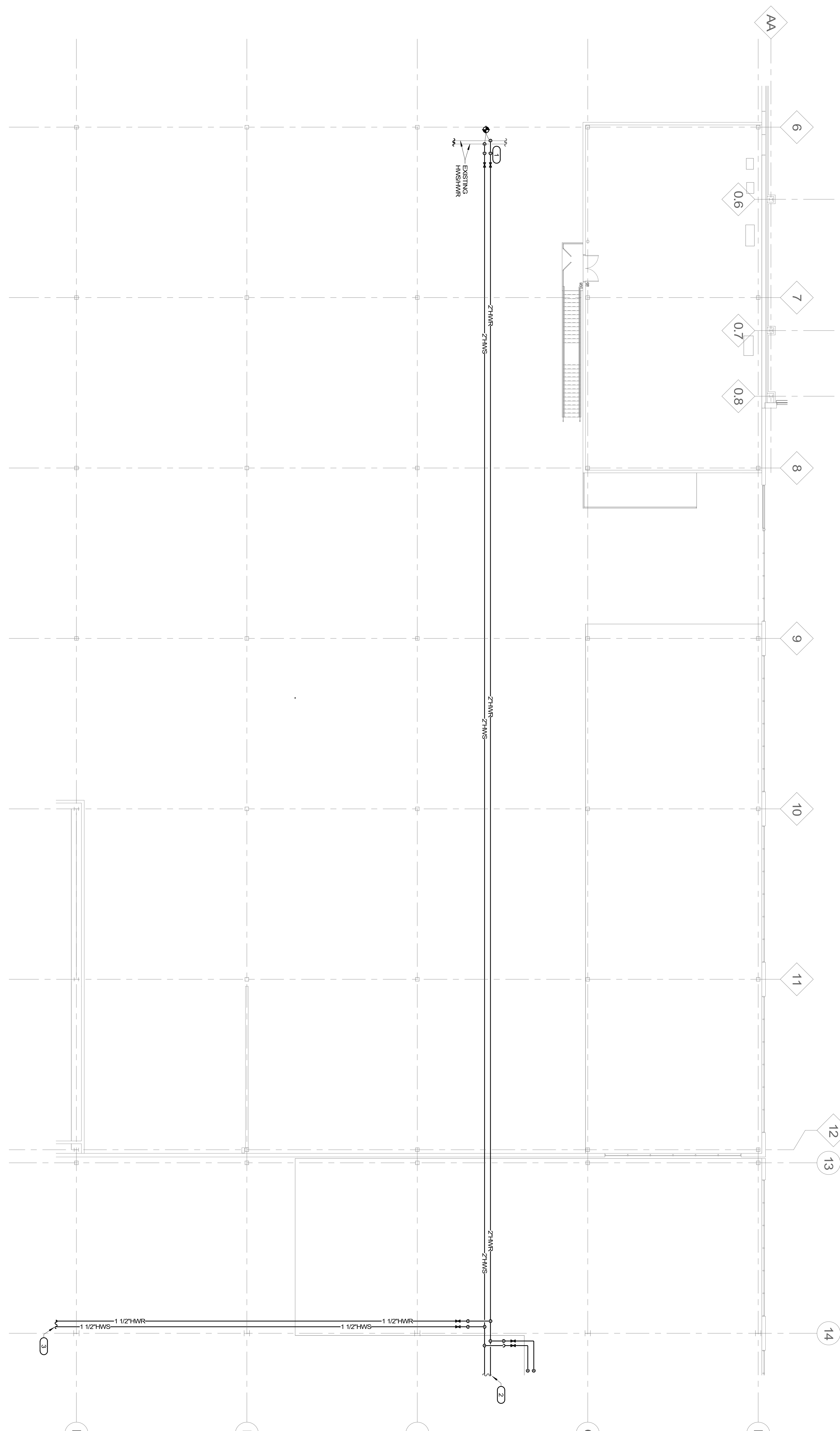
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VEGA MASON EXPANSION
MASON RESEARCH AND DEVELOPMENT PARK
MASON, OH
LEVEL 01 - HVAC PLAN - MANUFACTURING AREA Q
LOWER

Project Manager
M.WALSH
Drawn
T.AVAREHALLI
Checked
S.STOSSEY
Submitted Drawing Date
02/26/2024
Project Number
23007218.00

M201.Q

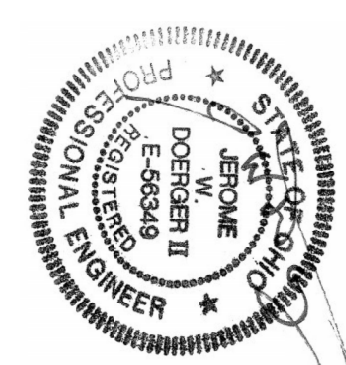


MECHANICAL PLAN-LEVEL 2 EXISTING BUILDING (NO DUCTWORK SHOWN FOR CLARITY)

- SHEET NOTES:**
1. REFER TO M001 FOR GENERAL NOTES AND NOTATIONS.
 2. NOTATIONS IN PARENT BRACKET TO MATCH LINE ET SIZES OF THE DIFFERENTIALS UNLESS OTHERWISE NOTED.
 3. REFER TO M001 FOR GENERAL NOTES AND NOTATIONS.
- KEYNOTES:**
1. EXPAND NEW PIPING UNLESS OTHERWISE NOTED.
 2. EXPAND EXISTING PIPING UNLESS OTHERWISE NOTED.
 3. SEE M002.L FOR CONTINUATION.

KEY PLAN

K	M	P
L	N	Q



VEGA MASON EXPANSION
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MASON, OH
EXISTING MANUFACTURING BLDG-HVAC PLAN

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 COLUMBUS 228 MADISON BLVD SUITE 200 COLUMBUS, OH 43215
 RALEIGH 150 FAYETTEVILLE ST SUITE 801 RALEIGH, NC 27601
 PITTSBURGH 840 LINCOLN SUITE 300 PITTSBURGH, PA 15206
 ATLANTA 715 BRADSHIRE ST SUITE 100 ATLANTA, GA 30308

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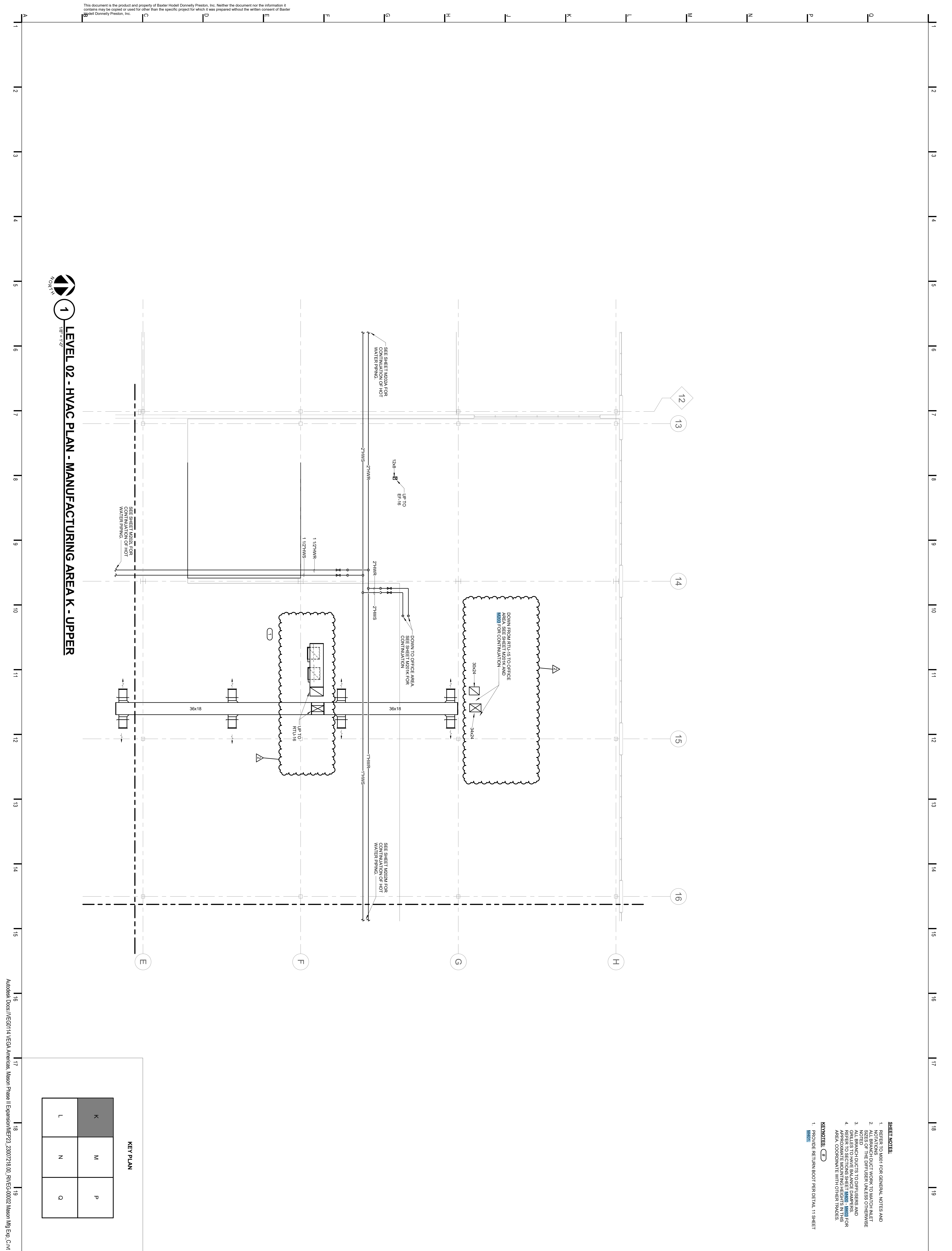
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M202.A

Project Manager: M. WALSH
 Designer: T. WAREHALLI
 Checker: S. STROSSER
 Date: 02/26/2024
 Project Number: 23007218.00



1 LEVEL 02 - HVAC PLAN - MANUFACTURING AREA K - UPPER
1/8" = 1'-0"

- SHEET NOTES:**
- REFER TO M202.1 FOR GENERAL NOTES AND NOTATIONS
 - ALL BRANCH DUCTWORK TO MATCH INLET AND OUTLET THE OTHER SIDE UNLESS OTHERWISE NOTED
 - ALL BRANCH DUCTS TO DIFFUSERS AND REGISTER
 - REFER TO SECTIONS SHEET M202.1 FOR APPROXIMATE MOUNTING HEIGHTS IN THIS AREA COORDINATE WITH OTHER TRADES
- KEYNOTES:**
- PROVIDE RETURN BOOT PER DETAIL 11 SHEET M202.1

KEY PLAN

K	M	P
L	N	Q

M202.K
23007218.00
Project Number
02/26/2024
Issue Date
S. TOSSEY
Drawing Date
T. WAREHALL
Checked By
M. WALSH
Drawn By
Project Manager

VEGA MASON EXPANSION
MASON RESEARCH AND DEVELOPMENT PARK
MASON, OH
LEVEL 02 - HVAC PLAN - MANUFACTURING AREA K
UPPER

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BHDP ARCHITECTURE
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CINCINNATI, OH 45202
PHONE 513.271.1634

CIVIL Engineer: The Kleingers Group, 6219 Centre Park Drive, West Chester, OH 45069; 513.779.7851
STRUCTURAL Engineer: Schaefer, 537 East Pete Rose Way, Suite 400, Cincinnati, OH 45202; 513.542.3300
MEP Engineer: IMEG, 11499 Chester Rd. Suite 501, Cincinnati, OH 45246, 513.782.4920

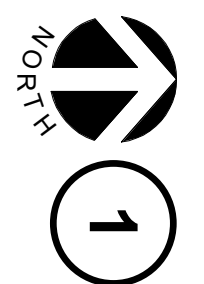
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03/22/2024
02/26/2024
Date

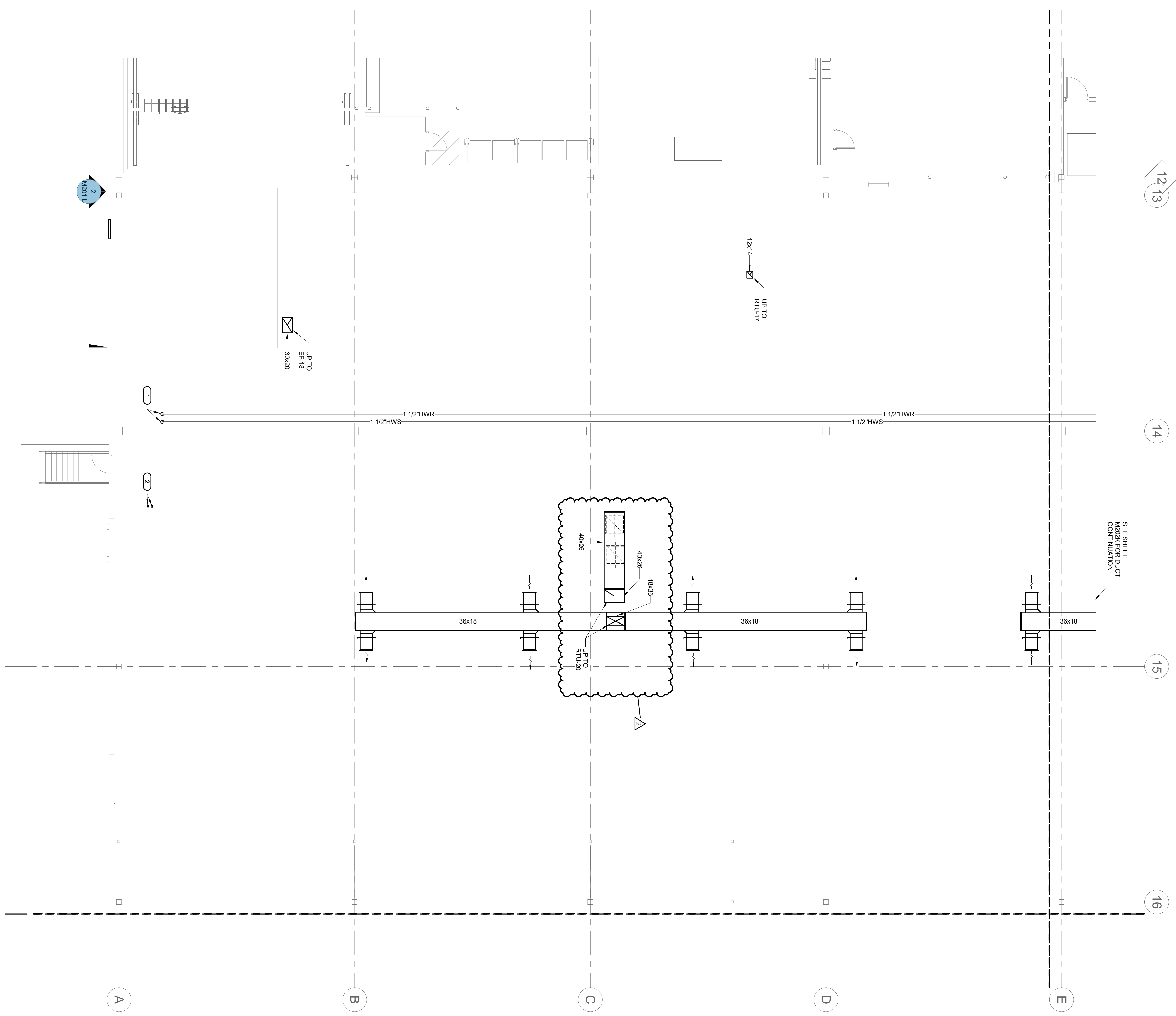
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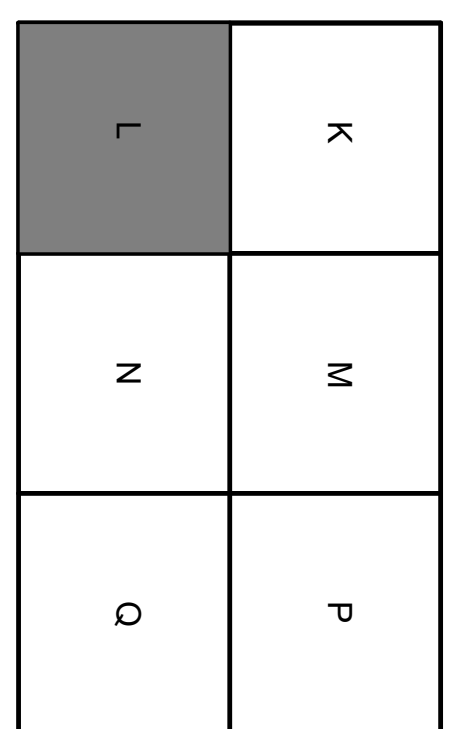


LEVEL 02 - HVAC PLAN - MANUFACTURING AREA L - UPPER



- SHEET NOTES:**
- REFER TO A001 FOR GENERAL NOTES AND NOTATIONS
 - ALL BRANCH DUCT WORK TO MATCH A001
 - ALL BRANCH DUCT WORK TO MATCH A001
 - ALL BRANCH DUCTS TO DIFFUSERS AND APPROXIMATE MOUNTING HEIGHTS IN THIS AREA (COORDINATE WITH OTHER TRADES)
- KEYNOTES:**
- 1 1/2\"/>

KEY PLAN



M202.L

Project Manager: M. WALSH
 Designer: T. WAREHALL
 Checker: S. TOSSEY
 Issue Date: 02/26/2024
 Project Number: 23007218.00

VEGA MASON EXPANSION
 MASON RESEARCH AND DEVELOPMENT PARK
 MASON, OH

LEVEL 02 - HVAC PLAN - MANUFACTURING AREA L UPPER

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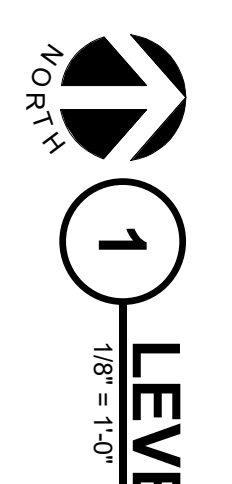
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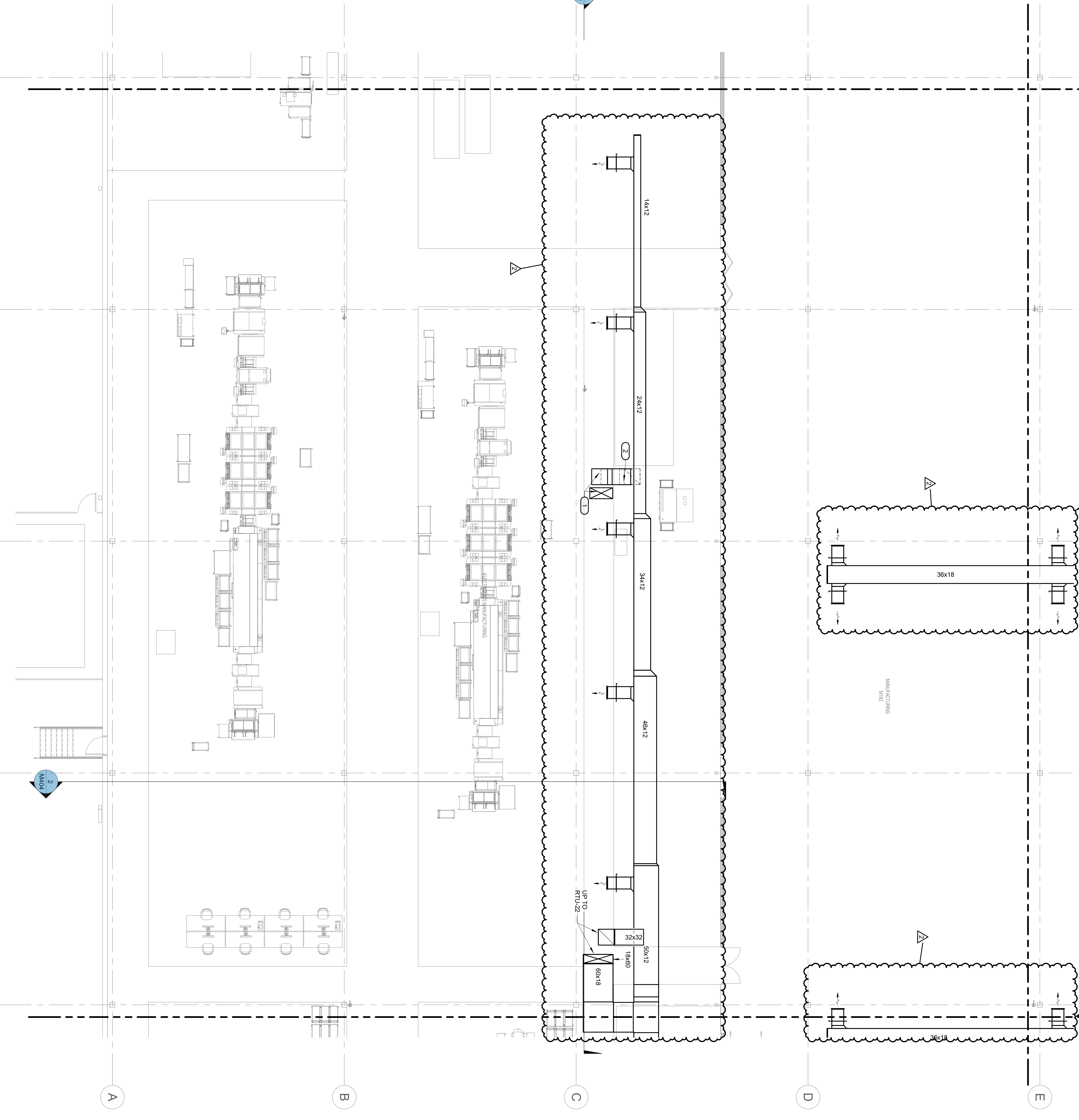
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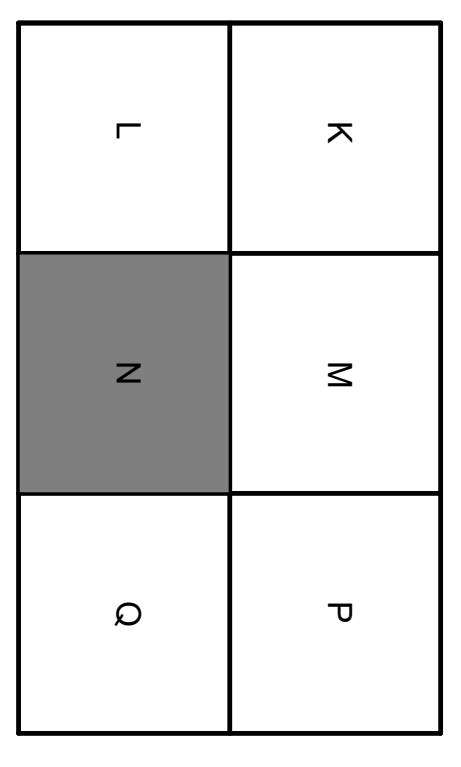
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LEVEL 02 - HVAC PLAN - MANUFACTURING AREA N - UPPER



KEY PLAN



Autodesk, Docs/VEGA Americas, Mason Phase II Expansion/MEP23, 23007218.00, RVE-C-0002 Mason Mfg Exp, Civil

M2021.N

Project Manager: M. WALSH
 Designer: T. WAREHALI
 Checker: S. TOSSEY
 Issue Date: 02/26/2024
 Project Number: 23007218.00

VEGA MASON EXPANSION
 MASON RESEARCH AND DEVELOPMENT PARK
 MASON, OH

LEVEL 02 - HVAC PLAN - MANUFACTURING AREA N UPPER

BHDP

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 CINCINNATI, OH 45202
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CIVIL Engineer: The Kleingers Group, 6219 Centre Park Drive, West Chester, OH 45069; 513.779.7851
 STRUCTURAL Engineer: Schaefer, 537 East Pete Rose Way, Suite 400, Cincinnati, OH 45202; 513.542.3300
 MEP Engineer: IMEG, 11499 Chester Rd. Suite 501, Cincinnati, OH 45246, 513.782.4920

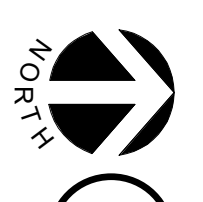
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1	ISSUED FOR CONSTRUCTION	03/22/2024
0	ISSUED FOR PERMIT	02/26/2024
No.	Issue/Revision/Submission	Date

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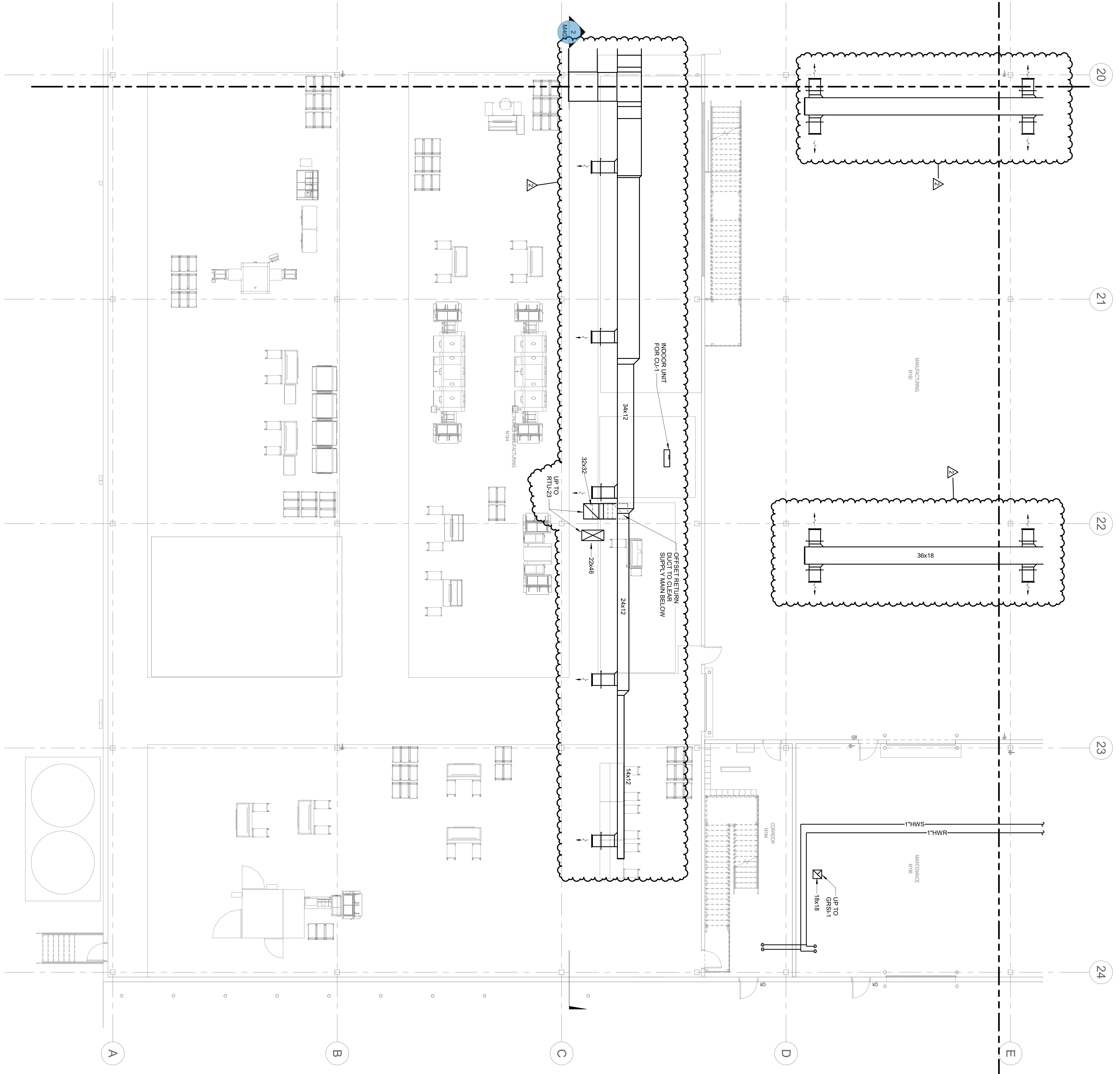
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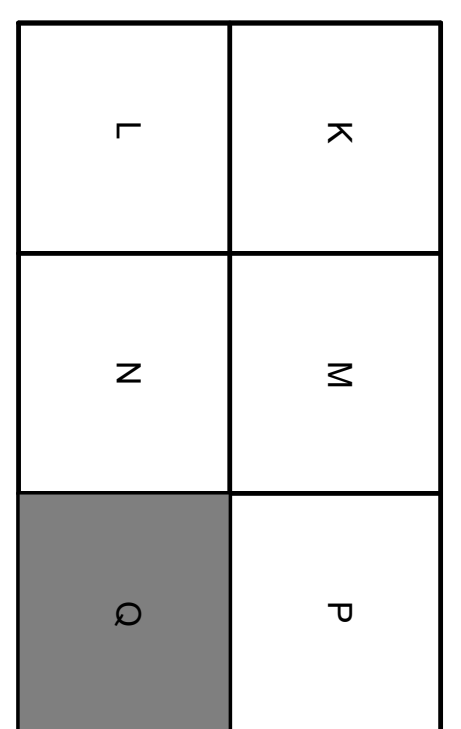
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LEVEL 02 - HVAC PLAN - MANUFACTURING AREA Q - UPPER



- SHEET NOTES**
1. REFER TO A001 FOR GENERAL NOTES AND NOTATIONS
 2. ALL BRANCH DUCT WORK TO MATCH A001
 3. ALL BRANCH DUCTS TO OFFENSES AND NOTED
 4. REFER TO SECTIONS SHEET M202.0 - M202.0 FOR APPROXIMATE MOUNTING HEIGHTS IN THIS AREA (COORDINATE WITH OTHER TRADES)

KEY PLAN



Autodesk Docs/VEGA Americas Mason Phase II Expansion/MEP23_23007218.00_RV/VEGA-0002 Mason Mfg Exp. CIV

M202.0

23007218.00
 Project Number
 02/26/2024
 Issue Date
 S. TOSSEY
 Designer
 T. VAREHALLI
 Project Manager
 M. WALSH
 Drawn

VEGA MASON EXPANSION
MASON RESEARCH AND DEVELOPMENT PARK
MASON, OH

LEVEL 02 - HVAC PLAN - MANUFACTURING AREA Q
UPPER



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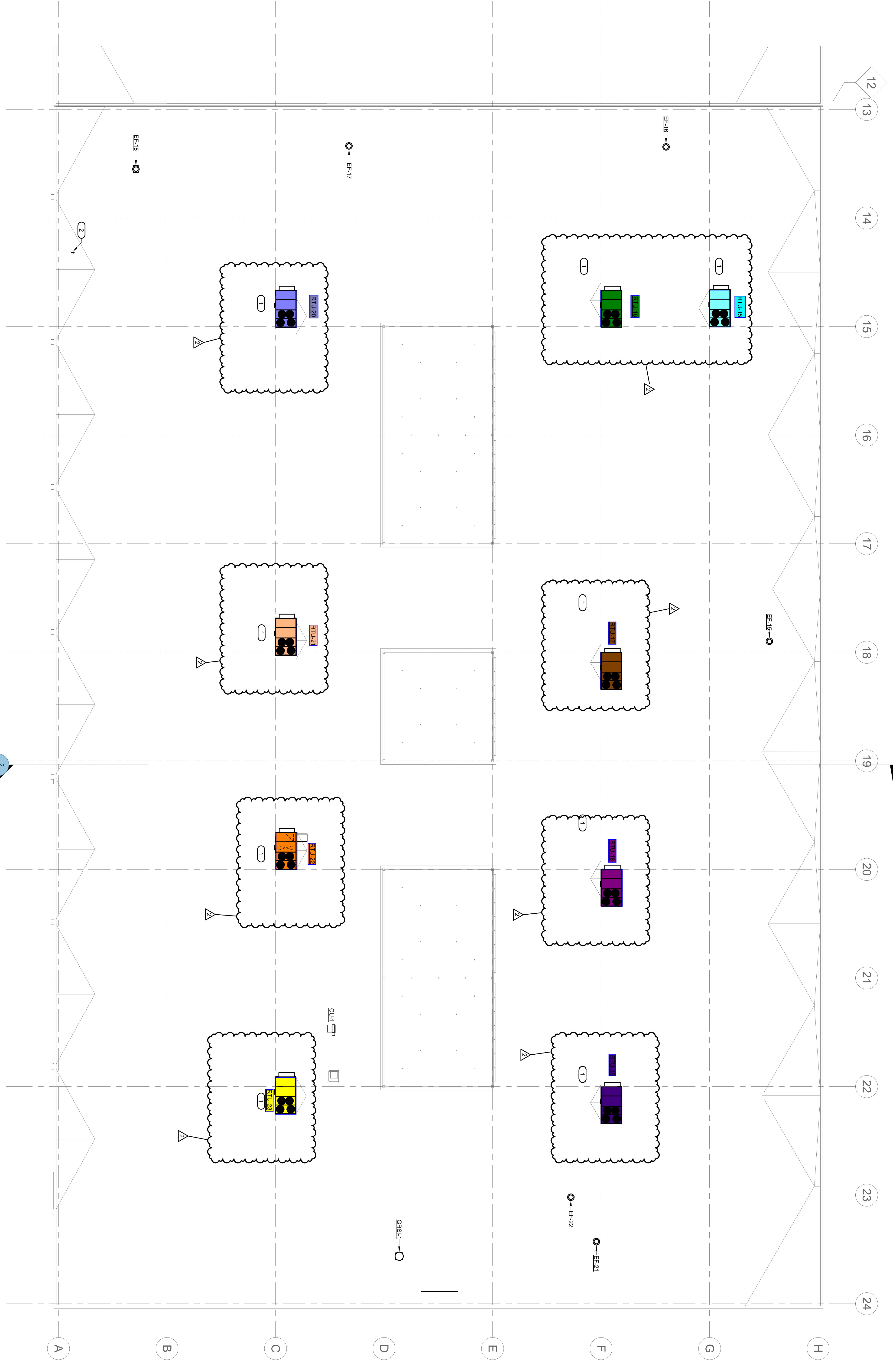
Date



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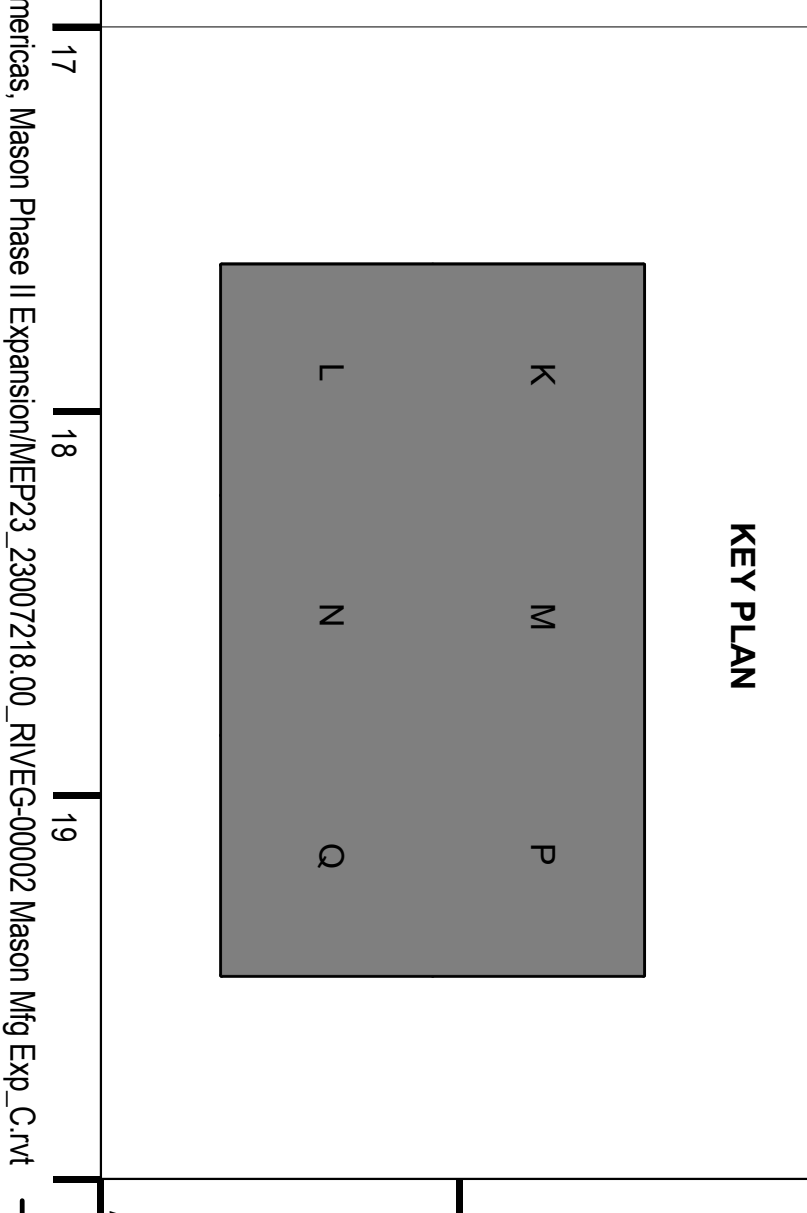
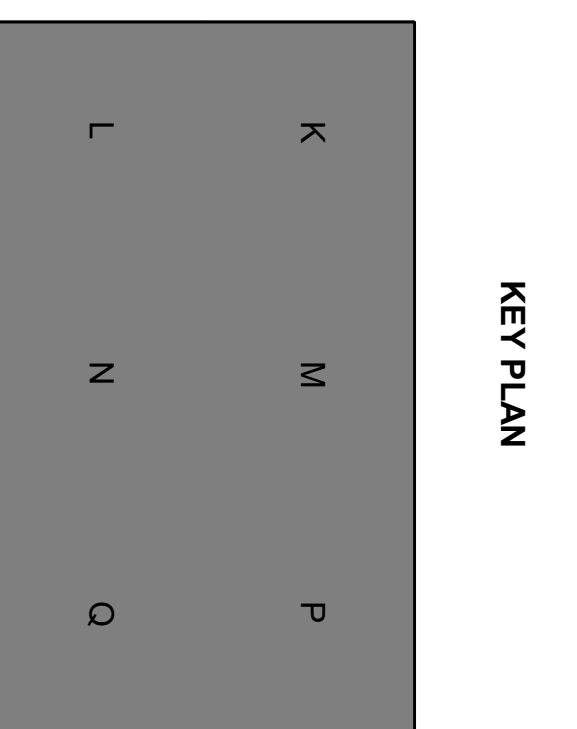


1 ROOF - HVAC PLAN

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

12 13 14 15 16 17 18 19 20 21 22 23 24

- KEYNOTES:**
1. REFER TO M001 FOR GENERAL NOTES AND NOTATIONS
 2. ALL BRANCH DUCTWORK TO MATCH INLET NOTED BY THE DUCTWORK UNLESS OTHERWISE NOTED
 3. ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES TO HAVE BALANCE DAMPERS.
- KEYNOTES:**
1. REFER TO SHEETS M202, M203, AND M204 FOR DUCTWORK
 2. REFER TO SHEETS M202, M203, AND M204 FOR CONTINUATION. TERMINATE DUCTWORK WITH GOOSENECK AS SHOWN IN DETAIL, TO ON RECOMMENDATIONS. ENSURE DUCTWORK TERMINATION AS PER AT LEAST 3'-0" FROM EXTENSION PARAMETER.



M203

23007218.00

02/26/2024

23007218.00

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ROOF - HVAC PLAN

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