

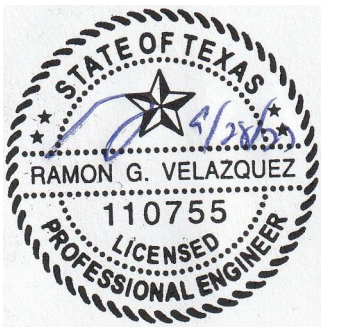
PHILLIPS

CONSULTANT

SAVANT Engineering, LLC

5064 Roswell Road, Suite D-301
Sandy Springs GA 30342 770.319.7400
Project 23161 ©2023
CERTIFICATE OF REGISTRATION #F-14896

SEAL



ISSUE & REVISION RECORD

#	DATE	DESCRIPTION
1	09/28/2023	TI PERMIT SET

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PROJECT

DIAMONDS DIRECT
NORTH FREEWAY SERVICE ROAD AND WOODSON ROAD
OAKRIDGE NORTH, MONTGOMERY COUNTY, TX 77381

CLIENT



DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336404

ISSUE DATE 09/28/2023

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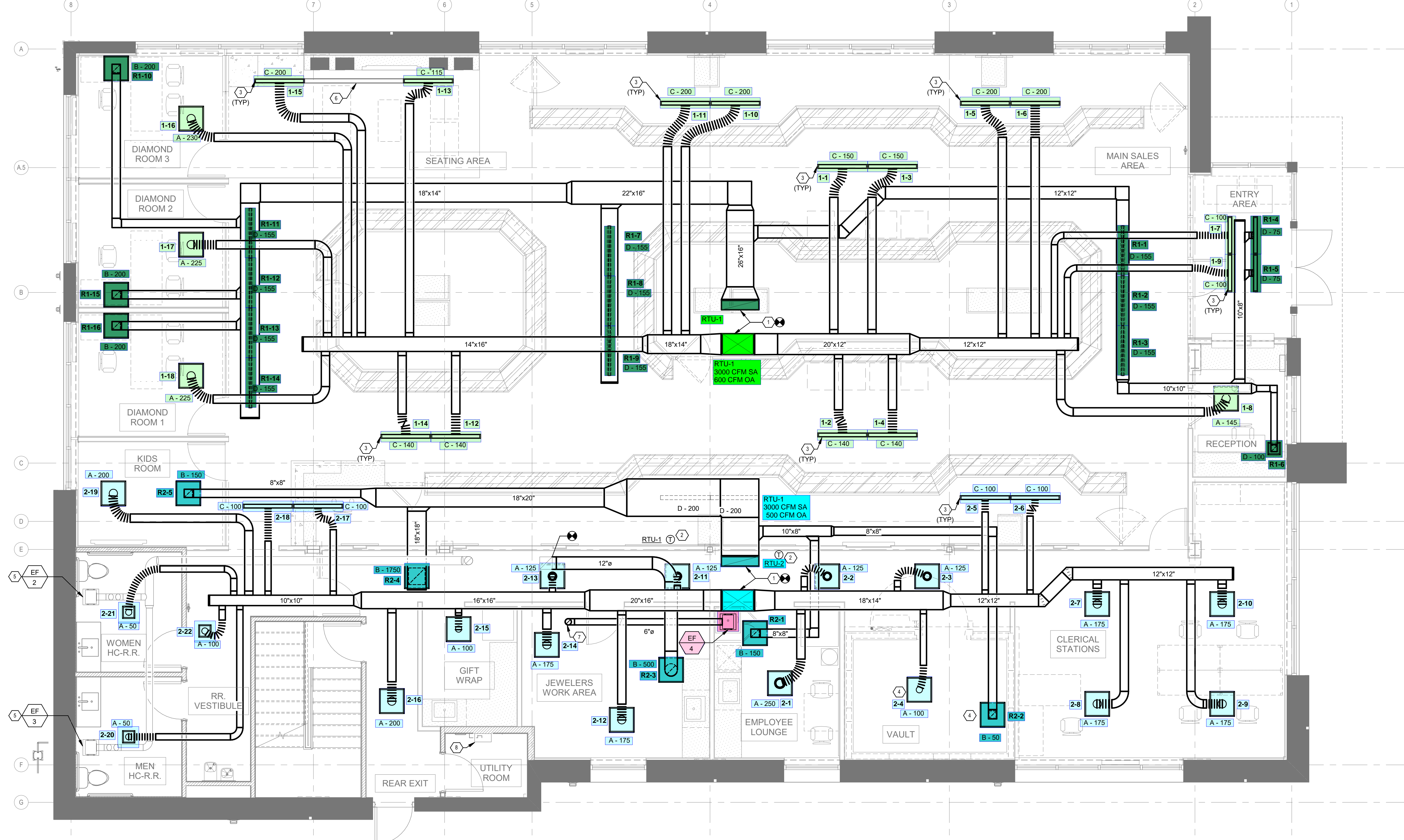
FLOOR PLAN - HVAC

SHEET NUMBER

M-1.1

5901 PEACHTREE DUNWOODY RD.
BUILDING A, SUITE 450
ATLANTA, GEORGIA 30328
PHILLIPS PART.COM 770.394.1616

ISSUED FOR CONSTRUCTION



GRILLE/DIFFUSER SCHEDULE

MARK	CFM	NECK SIZE	TYPE	MFG	MODEL	NOTES
A	0-100 101-200 201-400 401-600 601-800	6" 8" 10" 12" 14"	CEILING MOUNTED SQUARE SUPPLY DIFFUSER	TITUS	OMNI	1 - 5
B	0-125 126-250 251-400 401-600 601-900 901-1350 1351-2000	6X6 8X8 10X10 12X12 16X16 18X18 22X22	EGGCRATE RETURN/EXHAUST AIR GRILLE	TITUS	50F	1, 2, 4, 5
C	0-50 51-75 76-100	2 3 4	1" SLOT 48" LONG LINEAR SUPPLY DIFFUSER	TITUS	ML-39	4 - 8
D	0-85 86-120 121-160	2 3 4	1" SLOT 48" LONG LINEAR RETURN GRILLE	TITUS	MLR-39	4 - 8

- NOTES:
1. PROVIDE WITH OPPOSED BLADE BACKDRAFT DAMPER.
 2. PROVIDE 24X24 FULLY LOUVERED FACE LAYIN MODULE WHERE LOCATED IN LAYIN CEILING.
 3. PROVIDE SQUARE TO ROUND NECK TRANSITION WHERE APPLICABLE.
 4. COORDINATE BORDER TYPES WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
 5. PROVIDE WITH WHITE FINISH.
 6. PROVIDE WITH TITUS MPI-39 48" LENGTH MODULINEAR INSULATED PLENUM.
 7. PROVIDE WITH DURODYNE GCDOR INTERNAL ROUND GEAR DRIVEN CABLE OPERATED DAMPER.
 8. CFM PER LINEAR FOOT AND NUMBER OF SLOTS LISTED IN LIEU OF CFM AND NECK SIZE.

1 FLOOR PLAN - HVAC
M-1.1 1/4" = 1'-0"

EXHAUST FAN SCHEDULE

TAG	AREA SERVED	MANUFACTURER	MODEL	LOCATION	DRIVE	CFM	ESP IN WC	W	RPM	VOLTAGE	PHASES	NOTES
EF-4	EMPLOYEE LOUNGE	GREENHECK	SP-A90	CEILING	DIRECT	70	0.20	15	900	120 V	1	1 - 3

- NOTES:
1. PROVIDE WITH FAN SPEED CONTROLLER, BACKDRAFT DAMPER, AND DISCONNECT SWITCH.
 2. FAN SHALL BE INTERLOCKED WITH LIGHT SWITCH(ES) IN ROOM.
 3. GREENHECK IS THE BASIS OF DESIGN.

UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	LOCATION	FUEL SOURCE	VOLTAGE (V)	PHASES	INPUT (KW)	NOTES
UH-1	QMARK	MUH0381	STORAGE	ELECTRIC	208	2	4 KW	1 - 2

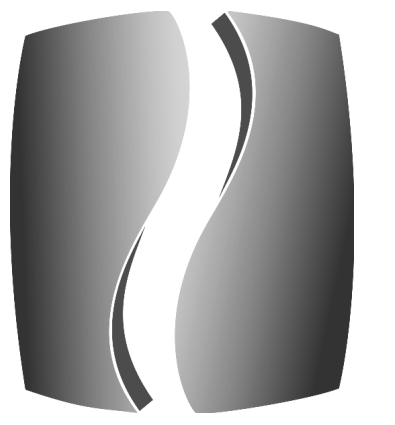
- NOTES:
1. PROVIDE WITH DISCONNECT SWITCH.
 2. PROVIDE WITH ADJUSTABLE THERMOSTAT SET TO MAINTAIN SPACE TEMPERATURE OF 50 DEG F.

KEYED NOTES:

1. CONNECT TO EXISTING SA AND RA DROPS FROM EXISTING RTU ON ROOF. INTERNALLY LINE THE FIRST 10' OF DUCT FROM THE EXISTING UNIT. REBALANCE TO CFMS INDICATED ON ROOF PLAN SHEET M-2.3.
2. MOUNT PROGRAMMABLE THERMOSTAT AT 42° A.F.F. COORDINATE EXACT LOCATION WITH ARCH PRIOR TO INSTALLATION. PROVIDE CONTROL WIRING FROM THERMOSTAT TO ASSOCIATED ROOFTOP AIR HANDLING UNIT AND CONNECT. PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET FOR SMOKE DETECTOR MOUNTED AT 42° A.F.F. ALIGN ANNUNCIATOR WITH THERMOSTAT SENSOR WHERE APPLICABLE. COORDINATE EXACT LOCATION OF NEW THERMOSTAT WITH ARCH PRIOR TO INSTALLATION.
3. PROVIDE CABLE OPERATED DAMPER (TYP). REFER TO DETAIL 1/M4.01
4. VERIFY SUPPLY AND RETURN AIR TERMINAL REQUIREMENTS WITH VAULT SUPPLIER AND INSTALLER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE REQUIREMENTS, LOCATION, AND ELEVATION PRIOR TO CONSTRUCTION. CONNECT AIR TERMINALS TO SUPPLY AND RETURN AIR MAIN.
5. EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK SHALL REMAIN.
6. PROVIDE BLANK SLOT IN CEILING. REFER TO ARCHITECTURAL PLANS.
7. NEW 6" Ø EXHAUST DUCT UP TO NEW ROOF CAP. REFER TO M-2.3 FOR CONTINUATION
8. EXISTING WALL HEATER TO REMAIN.

GENERAL NOTES:

1. OBTAIN MANUFACTURER'S DATA ON ALL EQUIPMENT. THE DIMENSIONS OF WHICH MAY AFFECT INSTALLATION. USE THIS DATA TO COORDINATE PROPER SERVICE CHARACTERISTICS, ENTRY LOCATIONS, ETC., AND TO ENSURE MINIMUM CLEARANCES ARE MAINTAINED.
2. ANY WALLS, CEILINGS, EQUIPMENT, ETC., DAMAGED BY THE CONTRACTOR IN CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED, RESTORED AND/OR REPLACED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION, OR TO PERFORM ITS INTENDED FUNCTION, AT NO ADDITIONAL COST TO OWNER.
3. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. REPAIR, CLEAN, AND REPLACE EXISTING EQUIPMENT, DEVICES, AND DUCTWORK AS NEEDED.
4. SPIN SIZES SHALL BE EQUAL TO DIFFUSER CONNECTION SIZE. SEE DIFFUSER SCHEDULE.



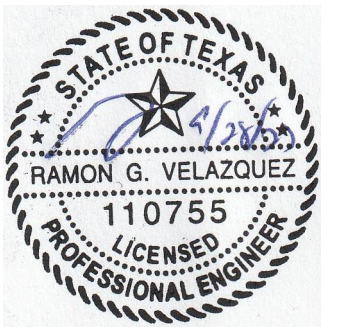
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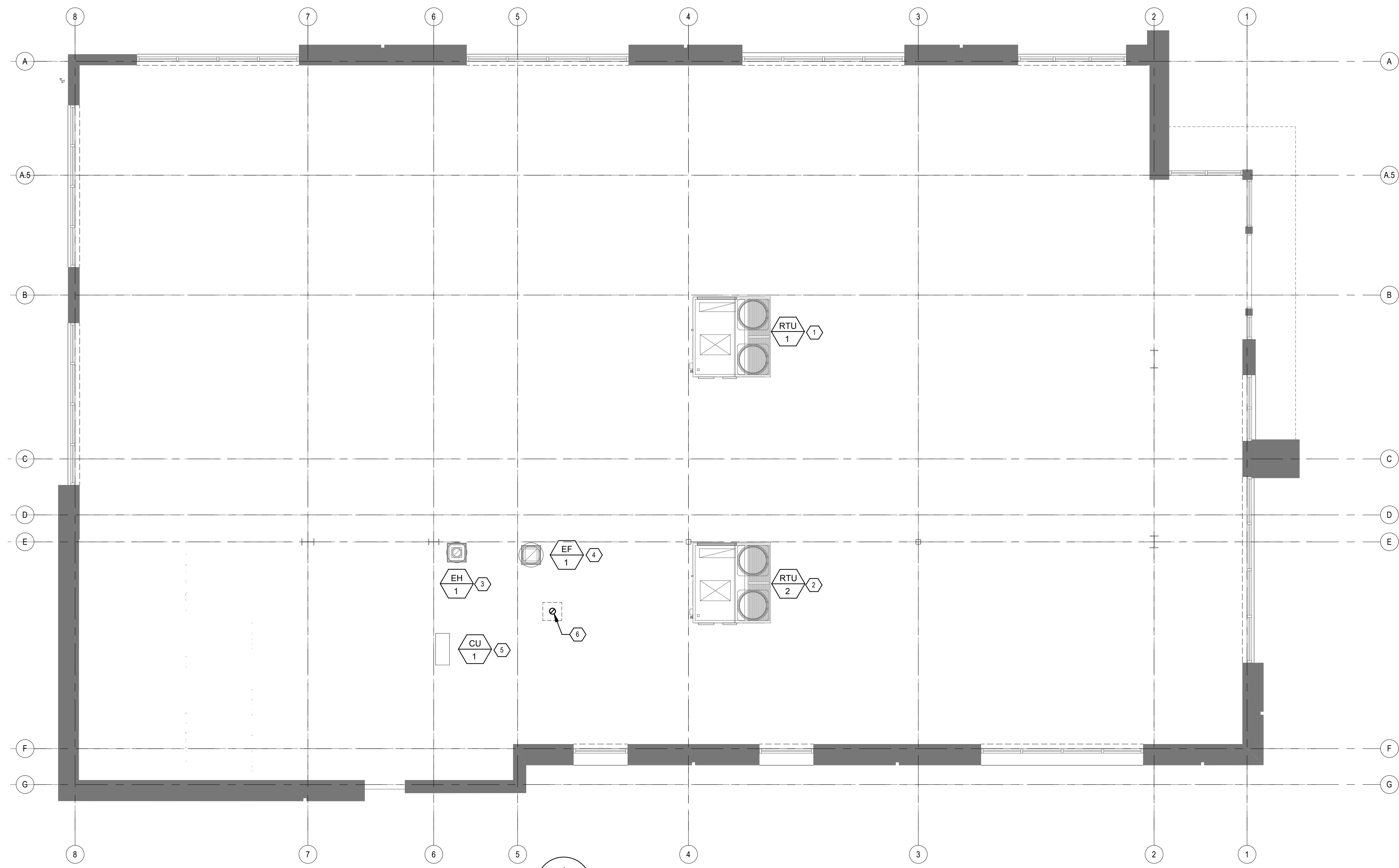
MEZZANINE & ROOF PLAN - HVAC

SHEET NUMBER

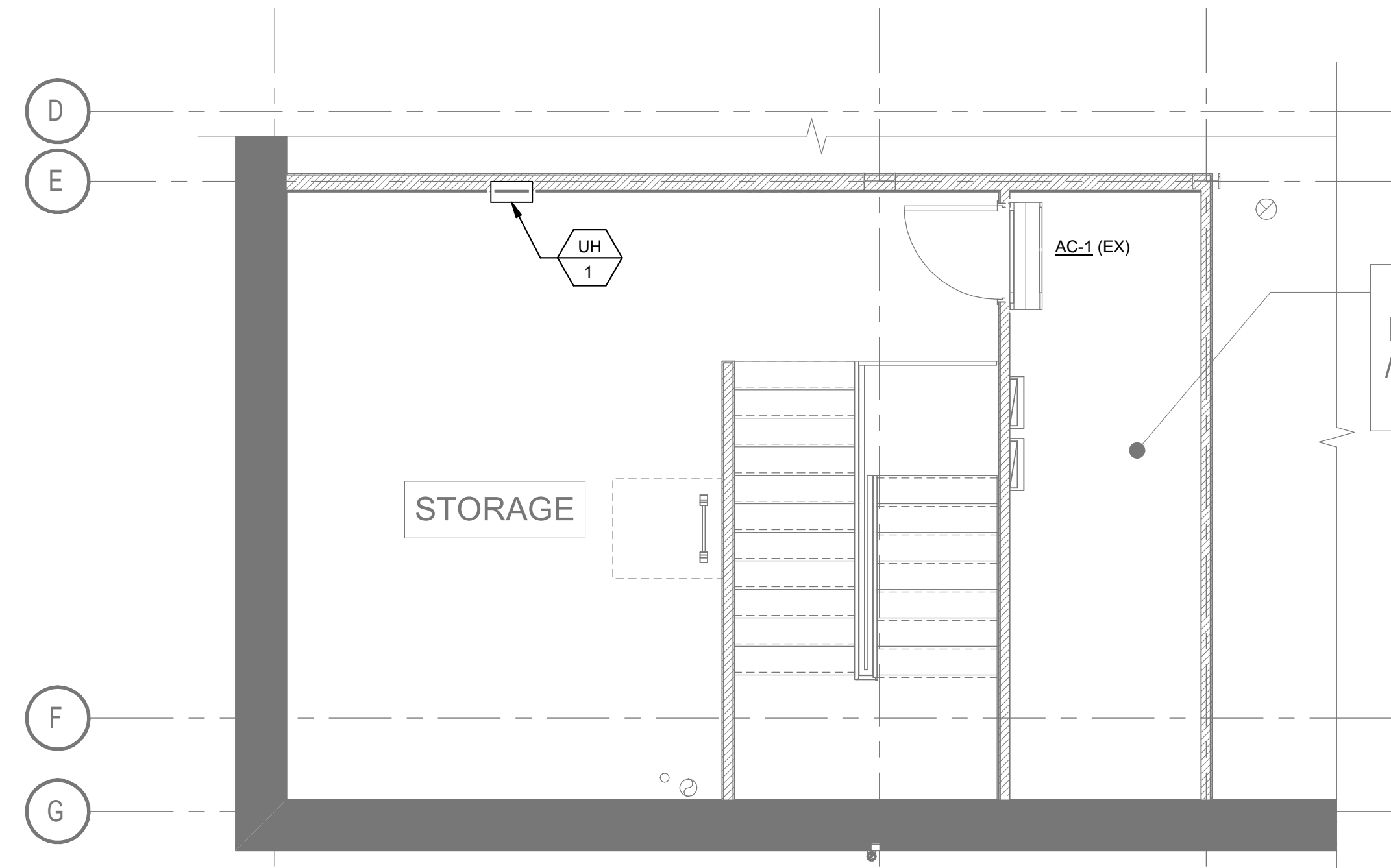
M-1.2

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PHILLIPSPART.COM 770-394-1616

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1 ROOF PLAN - HVAC
M-1.2 3/16" = 1'-0"



2 MEZZANINE PLAN - HVAC
M-1.2 1/4" = 1'-0"

KEYED NOTES:

- EXISTING 10 TON RTU-1 TO REMAIN. CLEAN AND SERVICE UNIT AND REPORT ANY DIFFICULTIES TO THE ARCHITECT. BALANCE TO 3000 CFM SUPPLY AIR AND 600 CFM OF OUTSIDE AIR. INSTALL BI-POLAR IONIZATION DEVICE EQUAL TO GLOBAL PLASMA SOLUTIONS.
- EXISTING 10 TON RTU-2 TO REMAIN. CLEAN AND SERVICE UNIT AND REPORT ANY DIFFICULTIES TO THE ARCHITECT. BALANCE TO 3000 CFM SUPPLY AIR AND 500 CFM OF OUTSIDE AIR.
- EXISTING EXHAUST HOOD TO REMAIN.
- EXISTING EXHAUST FAN EF-1 TO REMAIN.
- EXISTING CU-1 TO REMAIN.
- NEW 6" ROOF CAP FROM EE-4 BELOW. PROVIDE BIRDSCREEN AND BACKDRAFT DAMPER. MAINTAIN MIN 10'-0" FROM ANY FRESH AIR INTAKES.