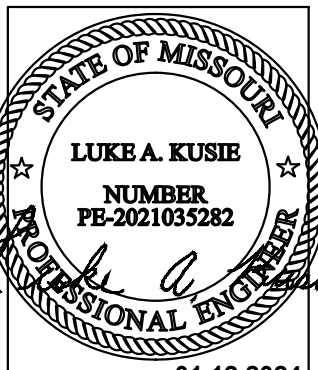




DAMIAN
FARRELL
DESIGN
GROUP

359 METTY DRIVE, SUITE 4A
ANN ARBOR, MI 48103
tel: 734.998.1331



FOR PERMIT ISSUE

DATE

12.28.2023
01.12.2024

DESCRIPTION

REVIEW SET
PERMIT SET

C3 - BRANSON MO
3125 GREEN MOUNTAIN DRIVE
BRANSON, MO 65616

CHECKED

LAK

DRAWN

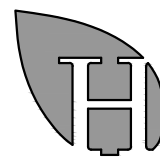
TMS

HEI PROJECT NO.

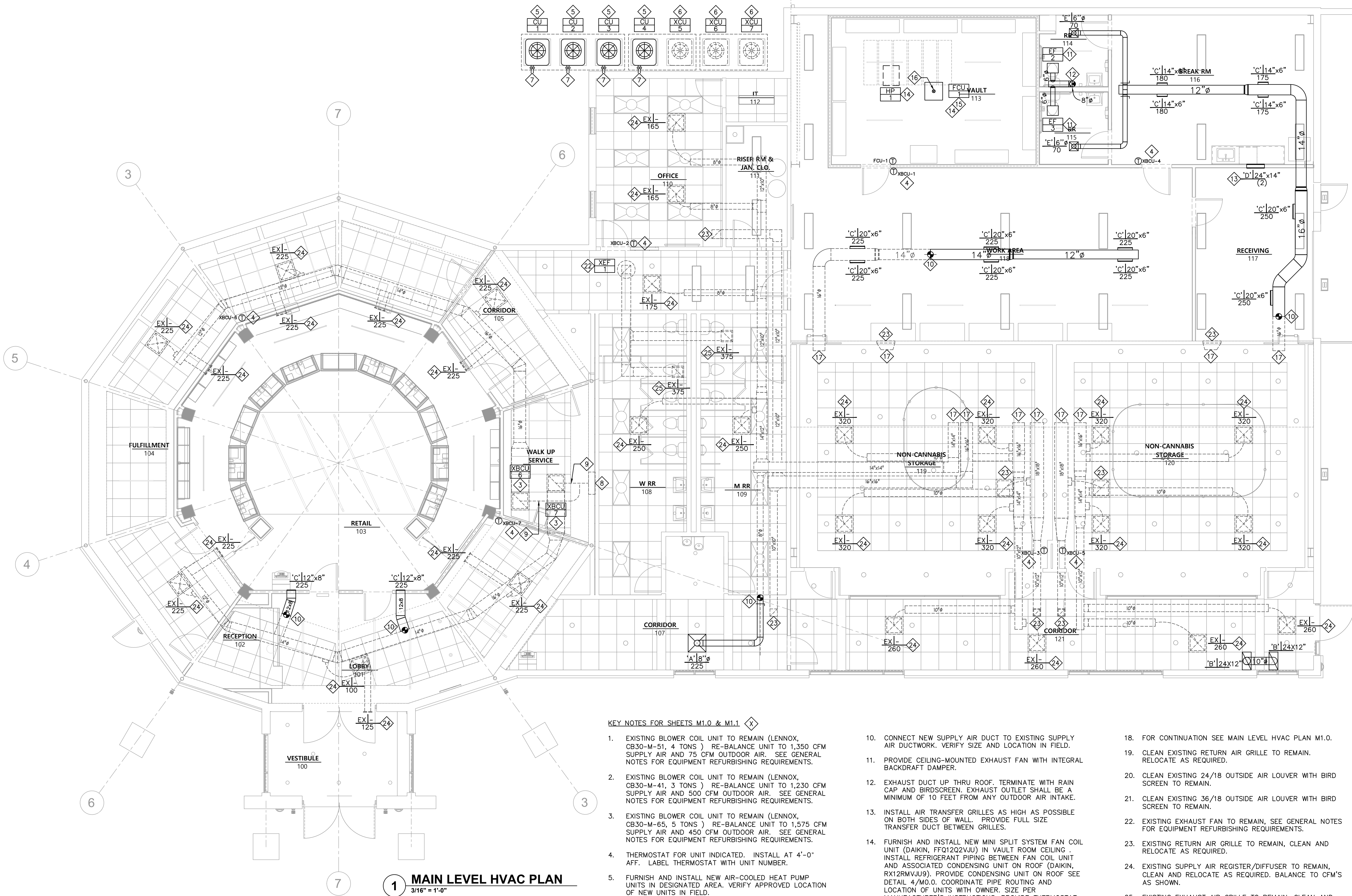
R23-4590.006

MAIN LEVEL HVAC PLAN

M1.0



HALLBERG
ENGINEERING
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1750 Commerce Court
White Bear Lake, MN 55110
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KEY NOTES FOR SHEETS M1.0 & M1.1

- EXISTING BLOWER COIL UNIT TO REMAIN (LENNOX, CB30-M-51, 4 TONS) RE-BALANCE UNIT TO 1,350 CFM SUPPLY AIR AND 75 CFM OUTDOOR AIR. SEE GENERAL NOTES FOR EQUIPMENT REFURBISHING REQUIREMENTS.
- EXISTING BLOWER COIL UNIT TO REMAIN (LENNOX, CB30-M-41, 3 TONS) RE-BALANCE UNIT TO 1,230 CFM SUPPLY AIR AND 500 CFM OUTDOOR AIR. SEE GENERAL NOTES FOR EQUIPMENT REFURBISHING REQUIREMENTS.
- EXISTING BLOWER COIL UNIT TO REMAIN (LENNOX, CB30-M-65, 5 TONS) RE-BALANCE UNIT TO 1,575 CFM SUPPLY AIR AND 450 CFM OUTDOOR AIR. SEE GENERAL NOTES FOR EQUIPMENT REFURBISHING REQUIREMENTS.
- THERMOSTAT FOR UNIT INDICATED. INSTALL AT 4'-0" AFF. LABEL THERMOSTAT WITH UNIT NUMBER.
- FURNISH AND INSTALL NEW AIR-COOLED HEAT PUMP UNITS IN DESIGNATED AREA. VERIFY APPROVED LOCATION OF NEW UNITS IN FIELD.
- EXISTING AIR-COOLED HEAT PUMP UNITS IN DESIGNATED AREA TO REMAIN.
- ROUTE REFRIGERANT PIPING UP AND OVER TO MEZZANINE FOR CONNECTION TO UNITS ON THE MEZZANINE AREA. FOLLOW ROUTING OF EXISTING LINESETS.
- CLEAN EXISTING 30/24 OUTSIDE AIR LOUVER WITH BIRD SCREEN TO REMAIN.
- 12"Ø OUTSIDE AIR DUCT WITH BALANCING DAMPER TO REMAIN.
- CONNECT NEW SUPPLY AIR DUCT TO EXISTING SUPPLY AIR DUCTWORK. VERIFY SIZE AND LOCATION IN FIELD.
- PROVIDE CEILING-MOUNTED EXHAUST FAN WITH INTEGRAL BACKDRAFT DAMPER.
- EXHAUST DUCT UP THRU ROOF. TERMINATE WITH RAIN CAP AND BIRDSCREEN. EXHAUST OUTLET SHALL BE A MINIMUM OF 10 FEET FROM ANY OUTDOOR AIR INTAKE.
- INSTALL AIR TRANSFER GRILLES AS HIGH AS POSSIBLE ON BOTH SIDES OF WALL. PROVIDE FULL SIZE TRANSFER DUCT BETWEEN GRILLES.
- FURNISH AND INSTALL NEW MINI SPLIT SYSTEM FAN COIL UNIT (DAIKIN, FF01202VJU) IN VAULT ROOM CEILING. INSTALL REFRIGERANT PIPING BETWEEN FAN COIL UNIT AND ASSOCIATED CONDENSING UNIT ON ROOF (DAIKIN, RX12RMVJU9). PROVIDE CONDENSING UNIT ON ROOF SEE DETAIL 4/M.O.O. COORDINATE PIPE ROUTING AND LOCATION OF UNITS WITH OWNER. SIZE PER MANUFACTURER'S INSTRUCTIONS. PROVIDE THERMOSTAT AND MOUNT AT 4'0" AFF. BALANCE AS REQUIRED TO PROVIDE 30 CFM OUTSIDE AIR.
- EXTEND 1" PRIMARY CONDENSATE PIPES TO DISCHARGE AT MOP SINK. PROVIDE 4" DEEP TRAP ON PRIMARY CONDENSATE PIPE. PROVIDE 2" AIR GAP AT DISCHARGE. PROVIDE MANUFACTURER'S CONDENSATE PUMP.
- 4"Ø OUTDOOR AIR DUCT UP THROUGH THE ROOF TO THE GOOSENECK. SEE DETAIL 5/M.O.O. AIR INTAKE SHALL BE A MINIMUM OF 10 FEET FROM ANY EXHAUST DISCHARGE.
- FOR CONTINUATION SEE MEZZANINE HVAC PLAN M1.1.
- FOR CONTINUATION SEE MAIN LEVEL HVAC PLAN M1.0.
- CLEAN EXISTING RETURN AIR GRILLE TO REMAIN. RELOCATE AS REQUIRED.
- CLEAN EXISTING 24/18 OUTSIDE AIR LOUVER WITH BIRD SCREEN TO REMAIN.
- CLEAN EXISTING 36/18 OUTSIDE AIR LOUVER WITH BIRD SCREEN TO REMAIN.
- EXISTING EXHAUST FAN TO REMAIN, SEE GENERAL NOTES FOR EQUIPMENT REFURBISHING REQUIREMENTS.
- EXISTING RETURN AIR GRILLE TO REMAIN, CLEAN AND RELOCATE AS REQUIRED.
- EXISTING SUPPLY AIR REGISTER/DIFFUSER TO REMAIN, CLEAN AND RELOCATE AS REQUIRED. BALANCE TO CFM'S AS SHOWN.
- EXISTING EXHAUST AIR GRILLE TO REMAIN, CLEAN AND RELOCATE AS REQUIRED.
- EXISTING BLOWER COIL UNIT TO REMAIN (LENNOX, CB30-M-65, 5 TONS) RE-BALANCE UNIT TO 1,800 CFM SUPPLY AIR AND 450 CFM OUTDOOR AIR. SEE GENERAL NOTES FOR EQUIPMENT REFURBISHING REQUIREMENTS.