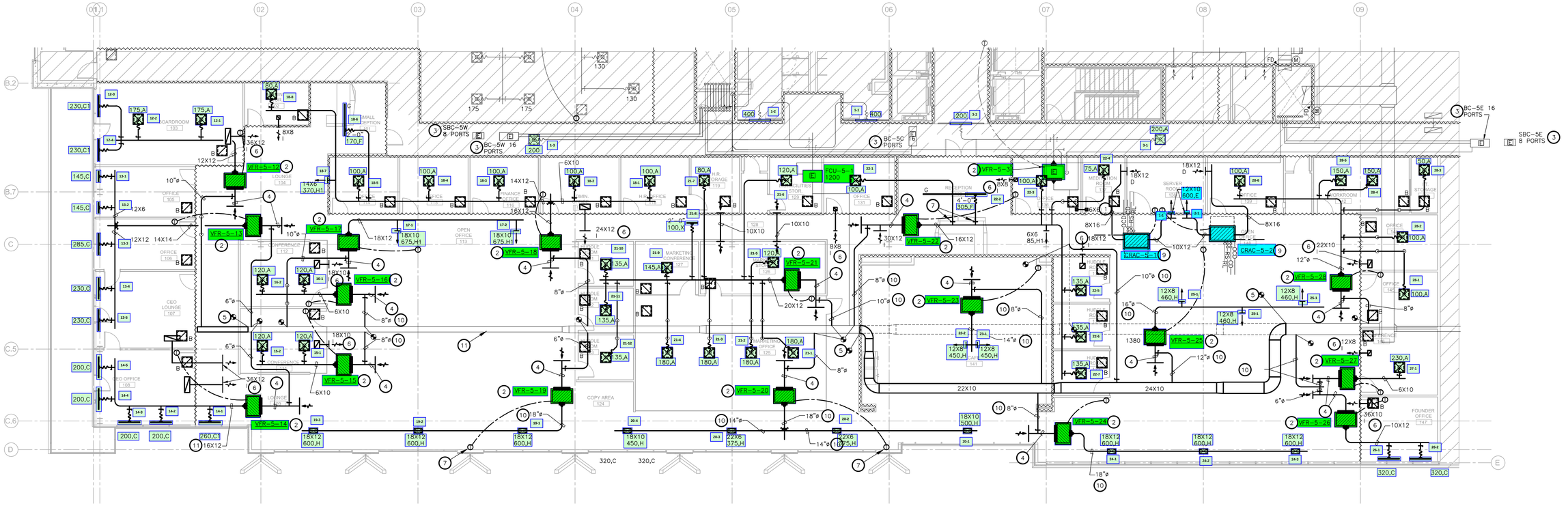

1 LEVEL 05 MECHANICAL PLAN
SCALE: 1/8"=1'-0"

SEQUENCE OF OPERATION REDUDANCY

PRIMARY AC UNITS SHALL RUN DURING OPERATING HOURS. ONE AC UNIT SHALL BE CONSIDERED AS A BACKUP AND ITS COMPRESSOR AND FAN SHALL BE OFF. THE BACKUP UNIT SHALL BE ACTIVATED BY FAILURE OF ANY ONE OF THE PRIMARY UNITS VIA LIEBERT AC4 CONTROLLER. ONCE THE PRIMARY UNIT IS OPERATIONAL, THE BACKUP UNIT'S FAN AND COMPRESSOR SHALL CEASE TO OPERATE. AC4 CONTROL PANEL SHALL PROVIDE LEAD/LAG CAPABILITY SO BACKUP UNIT CAN ROTATE AT A CONSISTANCE TIME PERIOD.

NOTES BY SYMBOL ⓧ:

1. PROVIDE ACOUSTICALLY LINED RETURN AIR BOOT THRU WALL TO DECK AS HIGH AS POSSIBLE ABOVE CEILING WITH INLET ELBOW AND OUTLET 90° ELBOW FACING UPWARD. SIZE PER PLANS. REFER TO DETAIL 01/M0.01 FOR MORE INFORMATION.
2. FC UNIT TO BE SUSPENDED FROM STRUCTURE. PROVIDE A GALVANIZED SHEET METAL SECONDARY DRAIN PAN THAT IS A MINIMUM OF 3" LARGER (ON EACH SIDE) THAN ANY DIMENSION OF THE UNIT AND MUST EXTEND UNDER THE CONDENSATE PUMPS. EXTEND FULL SIZED RETURN AIR PLENUM AS INDICATED ON DRAWINGS. PROVIDE MANUAL DAMPER AT OUTSIDE AIR DUCT CONNECTION TO PLENUM.
3. EXISTING BRANCH CONTROLLER SUSPENDED FROM STRUCTURE WITH ISOLATION SPRINGS.
4. EXTEND FULL SIZED RETURN PLENUM FROM FAN COIL UNIT AS SHOWN. PROVIDE WIRE MESH AT RETURN AIR OPENING IN PLENUM. CONNECT OUTSIDE AIR DUCT WITH BALANCING DAMPER AS SHOWN ON DETAIL LOCATED ON SHEET M3.01.
5. EXTEND NEW FULL SIZE DUCT SAME SIZE AND MATERIALS TO MATCH EXISTING DUCT. DUCT TO BE PRIMED FOR PAINTING. VERIFY SIZE AT JOB SITE PRIOR TO BIDDING.
6. PROVIDE ACOUSTICALLY LINED RETURN AIR BOOT FROM GRILLE THRU WALL TO DECK AS HIGH AS POSSIBLE.
7. PROVIDE YOUNG REGULATOR FOR VOLUME DAMPER CONTROLS. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
8. PROVIDE INSULATION PAD TO BE INSTALLED BETWEEN THERMOSTAT AND PERIMETER WALL FOR THERMOSTATS MOUNTED ON EXTERIOR COLUMN/WALLS.
9. AC UNIT TO BE SUSPENDED FROM STRUCTURE WITH ISOLATION SPRINGS. REFER TO PLUMBING SHEET FOR WATER REQUIREMENTS. PROVIDE A GALVANIZED SHEET METAL SECONDARY DRAIN PAN THAT IS A MINIMUM OF 3" LARGER (ON EACH SIDE) THAN ANY DIMENSION OF THE UNIT AND MUST EXTEND UNDER THE CONDENSATE PUMPS.
10. ALL EXPOSED ROUND DUCTWORK SHALL BE DOUBLE WALL INSULATED SPIRAL DUCT, MOUNTED AT HEIGHT REQUIRED TO MAINTAIN GRILLES AT NO LOWER THAN ANY LIGHT FIXTURE.
11. NEW AND EXISTING EXPOSED RECTANGULAR DUCT TO PRIMED FOR PAINTING. NEW LOW PRESSURE DUCT SHALL BE INTERNALLY LINED.

REFER TO SHEET M0.01 FOR GENERAL NOTES, SCHEDULES AND SYMBOLS.

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5/1/2020

DATE SEAL:	ARCH. PROJ. #:	SCALE:
05.01.2020	202015	REF. DRAWING

SHEET NO.
M2.05

LEVEL 05
MECHANICAL
PLAN

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