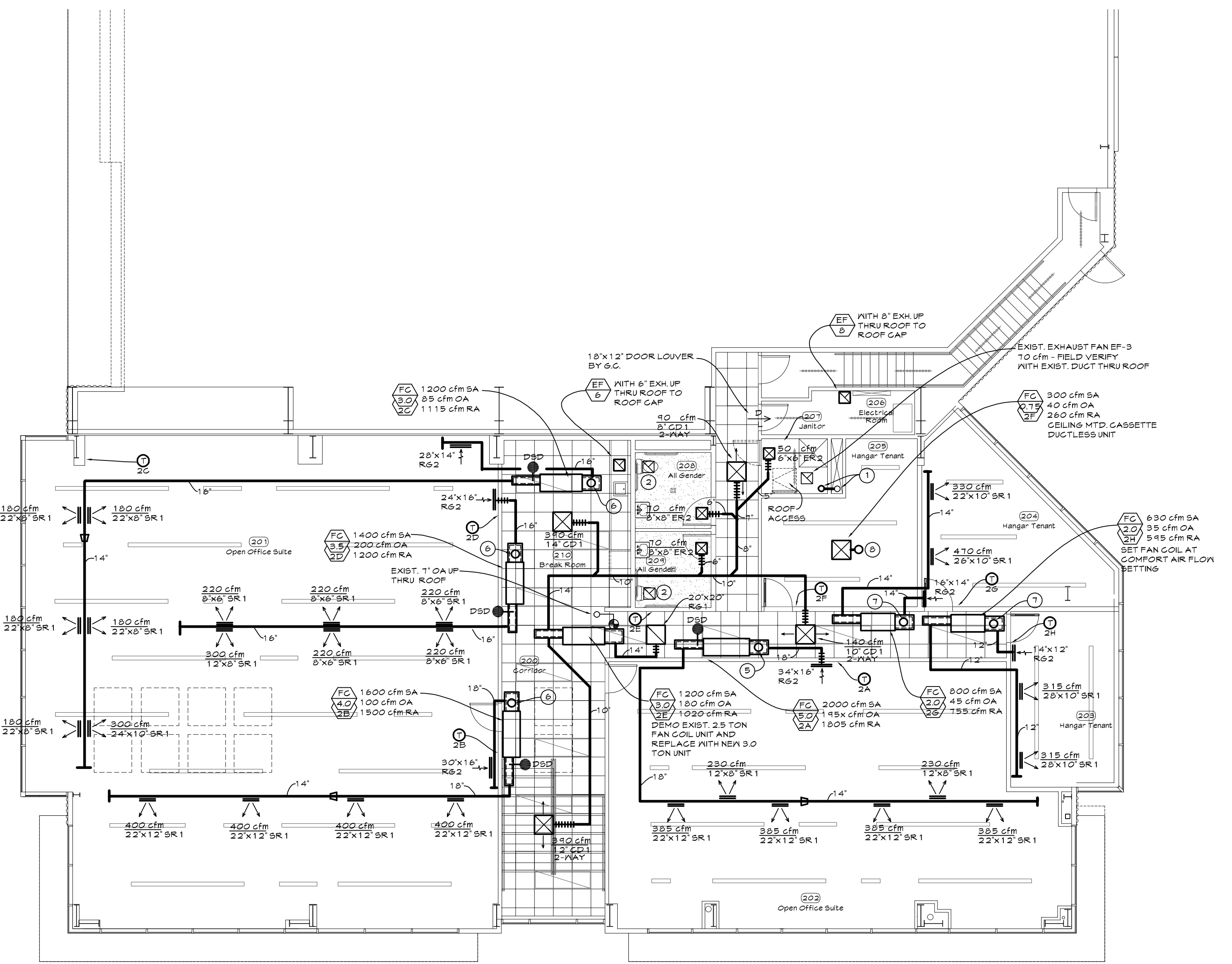


FIRST FLOOR PLAN - MECHANICAL
SCALE: 1/8"=1'-0"
NORTH



SECOND FLOOR PLAN - MECHANICAL
SCALE: 1/8"=1'-0"
NORTH

DUCT SMOKE DETECTORS

1. PROVIDE LISTED AND APPROVED DUCT SMOKE DETECTOR IN MAIN SUPPLY AIR DUCTS OF AIR MOVING SYSTEMS EXCEEDING 2000 cfm TO AUTOMATICALLY SHUT DOWN THE MECHANICAL UNIT PER C.M.C. SECTION 6.05, 2013 C.F.C. 2013 NFPA 72. SMOKE DETECTORS SHALL BE APPROVED AND LISTED BY THE STATE FIRE MARSHALL. SMOKE DETECTORS SHALL BE TOTALINE P210-2000PL OR EQUAL WITH A VELOCITY RATING OF 100 TO 4000 F.P.M.
2. THE DUCT SMOKE DETECTOR SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. LINE VOLTAGE AND WIRING DEVICES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, AND LOW VOLTAGE WIRING AND DEVICES SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
3. WHEN DUCT SMOKE DETECTORS ARE REQUIRED FOR MULTIPLE UNITS SERVING A SPACE WITH OVER 2000 cfm, ALL DETECTORS SHALL BE INTERLOCKED WITH LOW VOLTAGE WIRING BY THE MECHANICAL CONTRACTOR.
4. THE GENERAL CONTRACTOR SHALL SUBCONTRACT WITH A DESIGN BUILD FIRE ALARM SUBCONTRACTOR TO ENSURE FIRE ALARM CODES ARE MET FOR THIS TENANT IMPROVEMENT. CONTRACTOR SHALL TEST IN ALL DUCT SMOKE DETECTORS WHICH SHALL BE SUPERVISED BY AND ACTIVATE THE BUILDING FIRE ALARM SYSTEM PER CFM INTERPRETATION. ALL CONTROL WIRING FOR THIS SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTORS FIRE ALARM SUBCONTRACTOR.
5. WHEN DUCT SMOKE DETECTORS ARE INSTALLED IN INACCESSIBLE AREAS OR GREATER THAN 15 FT. ABOVE THE FINISHED FLOOR, PROVIDE REMOTE TEST STATION WITH RESET KEY OPERATED, LED, 120 V, 6 FT. AFF, AND LABELED ACCORDINGLY FOR EACH DETECTOR. TEST STATIONS SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
6. ACCESS PANELS SHALL BE PROVIDED FOR DETECTORS LOCATED IN INACCESSIBLE AREAS BY THE GENERAL CONTRACTOR.
7. WHEN INSTALLED ON OUTDOOR DUCTS, DETECTORS SHALL BE EQUIPPED WITH WFO, WEATHERPROOF ENCLOSURE.

DRAWING NOTES

1. BRANCH DUCT SIZES TO AIR DISTRIBUTION SHALL BE THE SAME SIZE AS THE REGISTER OR GRILLE NEAR SIZE UNLESS NOTED OTHERWISE.
2. PROVIDE MANUAL VOLUME DAMPER WITH COMMERCIAL GRADE QUADRANT LOCK AT ALL SA, EXHAUST & OA, AND MAIN RA BRANCH DUCTS AND WHERE SHOWN. INSURE THAT DAMPERS ARE IN ACCESSIBLE LOCATIONS.
3. PROVIDE LISTED AND APPROVED COMBINATION FIRE SMOKE DAMPER WHERE NOTED ON THE DRAWINGS AND WHERE REQUIRED PER CALIFORNIA BLDG. CODE. PROVIDE SMOKE ACTIVATION BY A 120V, 1PH DAMPER ACTUATOR WITH ACTIVATION BY AN APPROVED SMOKE DETECTOR.
4. FOR MECHANICAL EQUIPMENT DETAILS SEE M1.2.
5. VERIFY H.V.A.C. UNIT LOCATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.
6. VERIFY THERMOSTAT LOCATIONS WITH OWNER.
7. ALL THERMOSTATS LOCATED ON AN EXTERIOR WALL SHALL BE MOUNTED ON 1/2" MIN. INSULATED PAD.
8. FACTORY MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FT. IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS PER 603.4.1 C.M.C. 2018.
9. MECH. CONTR. SHALL VERIFY PROPER MECH. EQUIPMENT CLEARANCES FOR SERVICE AND REMOVAL BEFORE CONSTRUCTION. IF SPACE IS NOT ADEQUATE, NOTIFY ARCHITECT IMMEDIATELY.
10. MECH. CONTR. SHALL VERIFY PROPER DUCT CLEARANCE BEFORE INSTALLATION. IF ROUND DUCT DOES NOT FIT, PROVIDE 6L RECTANGULAR WITH THE SAME CROSS SECTIONAL AREA.
11. MECH. CONTR. SHALL MAKE SURE THAT THE FAN COIL UNIT IS ORDERED AND SUPPLIED WITH THE ACCESS ON THE CORRECT SIDE.
12. THESE PLANS WERE BASED ON THE AS-BUILTS WE RECEIVED. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING BID AND VERIFY ALL EXISTING CONDITIONS AND REQUIREMENTS.
13. DEMO ALL EXIST. AIR DISTRIBUTION THAT IS BEING REPLACED BY THESE NEW SYSTEMS.

KEY NOTES

1. RELOCATE EXIST. 12" EXHAUST RISER FROM 1ST FLOOR TO NEW SHAFT AND THEN OFFSET ABEV. CLG. AND UP THRU ROOF TO EXIST. EXHAUST FAN.
2. EXIST. EF-1 CLG. MOUNTED EXHAUST FAN. RELOCATE TO LOCATION SHOWN AND ROUTE DUCT TO EXIST. DUCT THRU ROOF.
3. REPLACE EXIST. DUCT AND GRILLE WITH NEW.
4. ADD NEW BOOSTER FAN IN EXISTING OUTSIDE AIR DUCT.
5. 10' OA DUCT UP THRU ROOF TO ROOF GAP - SEE DETAILS C/M1.2 AND H/M1.2.
6. 8' OA DUCT UP THRU ROOF TO ROOF GAP - SEE DETAILS C/M1.2 AND H/M1.2.
7. 6' OA DUCT UP THRU ROOF TO ROOF GAP - SEE DETAILS C/M1.2 AND H/M1.2.
8. 5' OA DUCT UP THRU ROOF TO ROOF GAP - SEE DETAILS C/M1.2 AND H/M1.2.