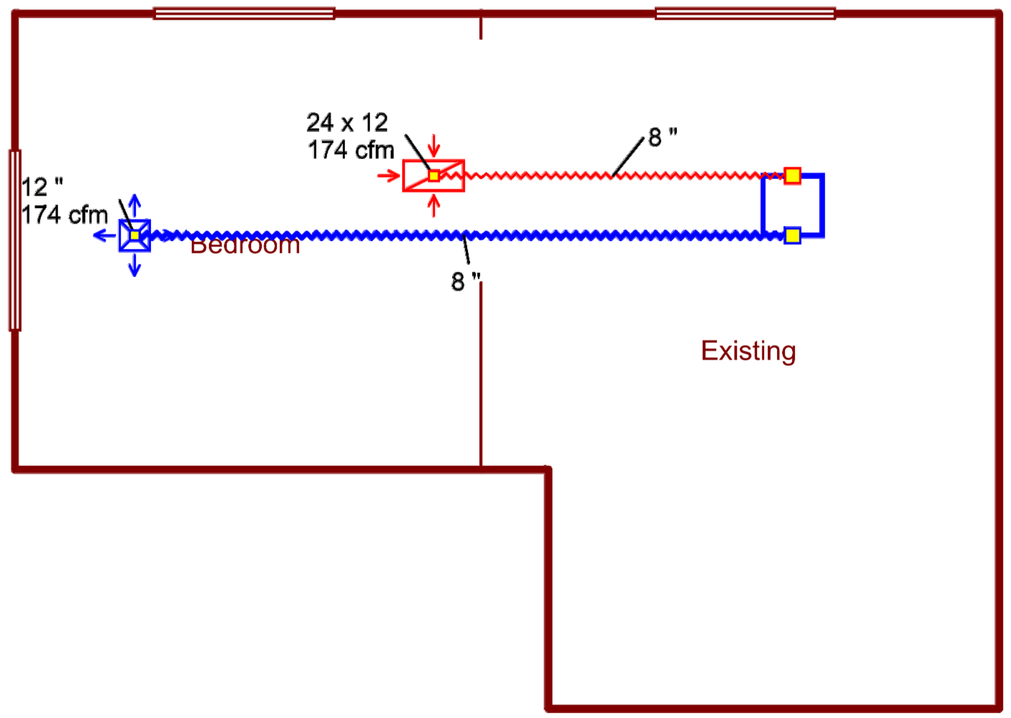
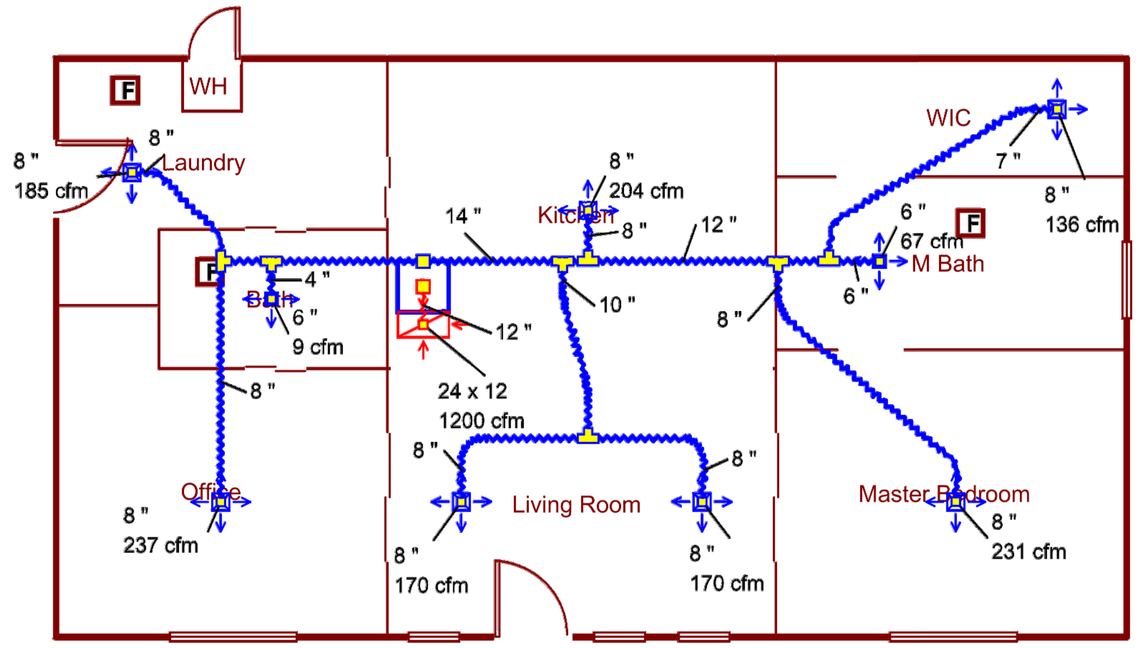
This is for ductwork only. Installing contractor to follow all local codes and to verify existing system size will accommodate the additional cooling needs.



ROOM ADDITION MECANICAL PLAN

1/4" = 1'-0"



GUEST HOUSE MECANICAL PLAN

1/4" = 1'-0"

Fresh air to be introduced via manufacturer assembly and be dampered to 48 CFM. Installing contractor to follow all local codes.

Exhaust Fans:

Bath - 50 CFM

Laundry - 80 CFM

Range and Dryer - By Others

MECHANICAL NOTES

2021 International Mechanical and International Residential Code now require a permanent label showing a duct run's equivalent length. PLAC34 is a simple solution that meets code requirements and makes it easier to use the dryer manufacturer's maximum allowed run-length. Made to last, the 3" X 4" PLAC34 is a .010" thick Lexan velvet-textured polycarbonate. This is the same material used to make bullet proof windows and is very difficult to mar. Its 3M 9471 pressure sensitive adhesive sticks permanently to a wide variety of surfaces.

1. Where the exhaust duct is concealed within the building construction, the equivalent length of the exhaust duct shall be identified on a permanent label or tag. The label or tag shall be located within 6 feet (1829 mm) of the exhaust duct connection.

2. Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

3. Where the primary heating system is a forced-air furnace, at least one thermostat per dwelling unit shall be capable of controlling the heating and cooling system on a daily schedule to maintain different temperature set points at different times of the day. This thermostat shall include the capability to set back or temporarily operate the system to maintain zone temperatures down to 55°F (13°C) or up to 85°F (29°C). The thermostat shall initially be programmed with a heating temperature set point no higher than 70°F (21°C) and a cooling temperature set point no lower than 78°F (26°C).

4. The components of the building thermal envelope as listed in Table N1102.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table N1102.4.1.1, as applicable to the method of construction. Where required by the building official, an approved third party shall inspect all components and verify compliance.

5. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour in Zones 1 and 2, and 3 air changes per hour in Zones 3 through 8. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the building official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the building official. Testing shall be performed at any time after creation of all all penetrations of the building thermal envelope.

6. During testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures; 2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures; 3. Interior doors, if installed at the time of the test, shall be open; 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed; 5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and6. Supply and return registers, if installed at the time of the test, shall be fully open.

7. When the winter design temperature in Table R301.2(1) is below 60 shall be provided with heating facilities capable of maintaining a minimum room temperature of 68 F at a point 3 feet (914 mm) above the floor and 2 feet (610 mm) from exterior walls in all habitable rooms at the design temperature. The installation of one or more portable space heaters shall not be used to achieve compliance with this section.

8. Outdoor intake and exhaust shall have either gravity or automatic dampers that close when the system is not running (IECC 6.3.5)

1 CITY COMMENTS 2-1-23

NEW GUEST HOUSE, ROOM ADDITION AND CARPORT FOR THE CAVNESS FAMILY

41200 N. 56th STREET
CAVE CREEK, ARIZONA 85331

M-1