Provide Accurate Drawings

The information in the scale drawing is used to meet Florida requirements and fully customize the HVAC design for your project.

Typically, architects permit documents show only new renovations or additions; these drawings do not usually show enough information of the existing residence to perform the code required manual j room-by-room heat load for an hvac design and energy calculations consisting of the entire project.

When scaled drawings are not available, a field sketch of the existing building showing the geometry and envelope component materials is needed.

All rooms served by the HVAC system(s) require the room-by-room heat load calculation to determine capacity and demand associated with existing, added or renovated rooms. This heat load calculation will also determine room-by-room air balance for the building. Adding rooms to an existing unit means removing the current amount of air delivered, to

correctly design the HVAC system. A full energy study of the entire building is required to ensure comfort and equipment sizing.

Minimum Hand Drawn Sketch Requirements

Sketch the existing building on the graph paper provided. (each block on the graph paper equals 1 square foot)

Be sure to include the following in your drawing:

- Show the compass orientation via a north arrow
- List address and permit jurisdiction of project
- Draw each room to scale
- Add designated room names
- Provide ceiling heights and types per room (flat, cathedral, tray or high hat, etc.)
- Identify each building envelope component type
 (floor walls, reaf type including cladding, wind
 - (floor, walls, roof type including cladding, windows and doors) with r-values
- Show each change in floor (on slab, raised floor over garage, etc.)
- · Show each wall as block or frame for exterior and interior
- Show each door type in inches with width times height and material (french doors and sliders are considered windows)
- · Show each window type in inches with width times height

(fixed, operable single or double hung, case, horizontal, etc) (single or double pane)

Show sliding glass or french doors

(fixed, operable single or double hung, case, horizontal, etc) (single or double pane)

- Indicate how much roof overhangs/extends past the walls, as well as measure the offset (the distance from the top of the window to the highest point of the overhang)
- If available, sketch current duct layout

