



# HVAC

## Bid Specifications

**The architectural drawings which will be provided by HFHK as part of the bid package. Contractor must follow the plans provided, unless otherwise discussed.**

Any contractor bidding as an HVAC Contractor for Habitat for Humanity homes must follow guidelines set-forth in ACCA Standard 5 QI-2010 (HVAC Quality Installation Specification) and be a registered Wisconsin HVAC contractor and meet all compliance criteria as set forth in ACCA Standard 5.

### **HVAC Specifications:**

- HFHK to file for all UDC and local permits required for installation in the name of the contractor. HVAC
- Contractor to install a variable speed furnace of at least 94% AFUE with ECM blower motor and 2 stages of heating, properly sized, per heat calculations. The unit shall include a manufactured fully enclosed air filter unit that is capable of holding at least a 3" thick accordion type filter with a minimal rating of MERV 6. The unit shall be left with a clean filter.
- A setback thermostat will be installed and thermostat will employ a minimum 5/2 setting capability.
- All cold air returns to be fully ducted. All duct boots shall be placed at rough in. Cut outs for duct boots will not be oversize. HVAC contractors will seal all duct boots to the floor, wall or ceiling using caulk, foam, or mastic paste/tape. All ducting joints and connections must be sealed using either Mastic paste or properly applied UL rated tape by the contractor.
- Fresh air intakes will be a minimum of 12 inches from the finish grade, and maintain Code distances to contamination sources and shall have a chase provided for on the plans to accommodate its entry. Furnace PVC intake air pipe (if allowed by furnace manufacturer) shall have a plastic or wire mesh cover over the exterior end.
- Contractor will be required to air balance each room upon completion of each project.

- BTU/Hr. of both the furnace and A/C units shall comply with sizing requirements allowed in Standard 5. A/C components must meet AHRI certification and meet “Matched Systems” criteria.  
Contractor will supply to Habitat Project Manager completed heat load calculations using Manual J8, ASHRAE Handbook Guidelines or other approved equivalents per the authority having jurisdiction.
- Contractor to be available for rough in per schedule. Rough in to include installation of an appropriate furnace and gas piping for temporary heat when requested by HFHK Project Manager. Temporary furnace cannot be the final unit installed to meet heat load requirements.
- Contractor to provide hard piping of dryer vent. Contractor to both hard pipe and insulate (4”) bath fan to gable, roof or soffit vent as indicated on plan. Contractor may not reduce the venting size in any circumstances.
- Contractor to provide a properly sized gas line to be run from the gas meter to furnace location with at least one gas stub out for the water heater, connected by the plumber. Contractor to provide gas piping as needed to other optional locations per plan and will charge separately as a change order.
- Contractor to deliver grills/diffusers after completion of rough-in and install during trim out.
- Contractor to finish each house in a timely manner, as per the agreed upon schedule.
- Contractor to caulk all penetrations per code.
- Contractor must be willing to install donated new furnaces if available from HFHK.

**Proposal Guidelines:**

- Bid must have costs broken down in the following manner:
  - Materials
  - Labor

**Job Requirements and Expectations:**

- All contractors working on a Habitat site must comply with all OSHA regulations.
- Contractors must supply a current copy of certificate of insurance (COI) for liability insurance and workman’s compensation certificate with Habitat as a certificate holder.
- From time to time we receive donations from manufacturers, distributors, outlets etc. of new plumbing fixtures that we accept and use in our homes. We do this to help contain costs, so we may help more families. We require the contractor to install them, but not to warranty them. All contractors working with HFHK must be

willing to cooperate with and use new supply/material donations, if and when applicable.

- There will be electricity on site, please inform HFHK if you intend to utilize it.
- There will not be a dumpster on site. All contractors will be responsible for removing scrap, supply reminsce and garbage created during the job.
- All contractors must clean up after themselves. There will be a clean up penalty of \$50/hour if Habitat must clean up after you.