

Charles Thomas

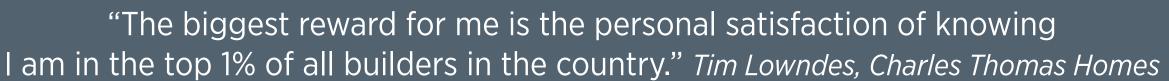
ZERO
ENERGY READY HOME

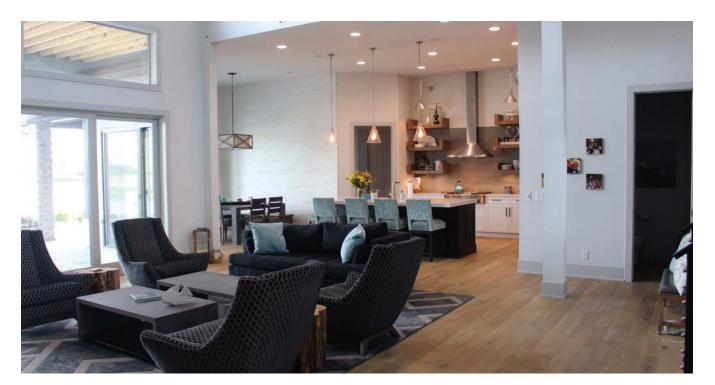
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PROJECT DATA

• **Layout:** 5 bdrm, 5 bath, 2 fl, 4,556 ft²

Climate: IECC 5A, coldCompleted: February 2017

Category: custom for buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 48, with PV NA
- Projected Annual Energy Costs: without PV \$2,300, with PV \$NA
- Projected Annual Energy Cost Savings:

 (vs typical new homes) without PV
 \$1,700, with PV \$NA
- Annual Energy Savings: without PV 12,300 kWh; 860 therms

CONTACT

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KEY FEATURES

- **Walls:** 2x6 24" o.c., advanced framing. R-23 blown fiberglass. Open-cell spray foam (R-21) at rim joists and top plates. Closed-cell spray foam behind tubs, showers, fireplaces. Coated, taped sheathing for air and water barrier. Fiber cement siding and trim.
- Roof: OSB decking, ice-and-water shield at eaves, 15-lb felt, 30-year asphalt.
- Attic: R-50 blown fiberglass; raised heel trusses; all top plates, knee walls, and soffits spray foamed.
- Foundation: Slab-on-grade with R-13 rigid foam on shallow frost-protected footings.
- Windows: Double-pane, low-e3, argon-filled.
- Air Sealing: 0.80 ACH 50.
- **Ventilation:** Fresh air intake with electronically controlled damper. Master bath exhaust fan set to continuous with high-speed switch; other bath fans timered.
- Hot Water: Combi heat and hot water tankless boilers.
- **HVAC:** Two tankless 95% efficient gas boilers for hot water coil with high-velocity small duct system in building; two 16-SEER two-stage AC units.
- Lighting: 100% LED.
- Appliances: ENERGY STAR dishwasher, refrigerator, clothes dryer, ceiling fans.
- Solar: Solar-ready.
- Water Conservation: Push-button recirc pump; WaterSense fixtures.
- Energy Management: Programmable thermostats.
- Other: No-VOC paint; active radon mitigation.





