

McStain Neighborhoods

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"We are currently pursuing our first all-electric homes." Danielle Davis, McStain Neighborhoods









PROJECT DATA

• **Layout:** 3 bdrm, 2.5 bath, 2 fl, 1,689 ft²

Climate: IECC 5B, cold
Completed: March 2022
Category: Custom Spec

MODELED PERFORMANCE DATA

- HERS Index: without PV 47; with PV 26
- Annual Energy Costs: without PV \$1,200; with PV \$550
- Annual Energy Cost Savings: (vs typical new homes) without PV \$850; with PV \$1,450
- Annual Energy Savings: without PV 2,750 kWh, 410 therms; 7,450 kWh, 410 therms
- Savings in the First 30 Years: without PV \$40,800; with PV \$71,650

CONTACT

Danielle Davis 303-494-5900 dvd@mcstain.com

KEY FEATURES

- Walls: 2x6 24" o.c., R-23 total: advanced framed; R-23 netted blown fiberglass in cavity; 3/4" coated OSB with seams taped, fiber cement and brick siding.
- Roof: Truss gabled roof: self-adhered underlayment, architectural asphalt shingles.
- Attic: Vented: 15" R-50 blown fiberglass, 12" raised-heel energy trusses.
- Foundation: Unvented conditioned crawlspace, poured concrete walls, 8-12" cast-in-place, R-19 drape insulation sealed to 10-mil poly vapor barrier ground cover.
- Windows: Double-pane, argon-filled, low-e, vinyl-framed, single-hung, U=0.30, SHGC=0.36.
- Air Sealing: 2.26 ACH50, whole house sealed with aerosolized acrylic sealant beads.
- Ventilation: Exhaust only, 80 CFM fans; MERV-13 filter at furnace air return.
- **HVAC:** Gas furnace, 96 AFUE, modulating furnace, A/C 16 SEER, rigid metal ducts in conditioned space.
- Hot Water: Gas-fired tankless, .95 UEF. "Smart" recirculation pump.
- Lighting: 100% LED.
- Appliances: ENERGY STAR dishwasher, refrigerator, clothes washer, clothes dryer.
- Solar: 4.125-kW rooftop panels.
- Water Conservation: Whole house EPA WaterSense certified; drought-resistant landscaping.
- Energy Management System: Smart doorbell; smart thermostat.
- Other: All products meet Indoor AirPlus certifications. Wired for EV charging.





