



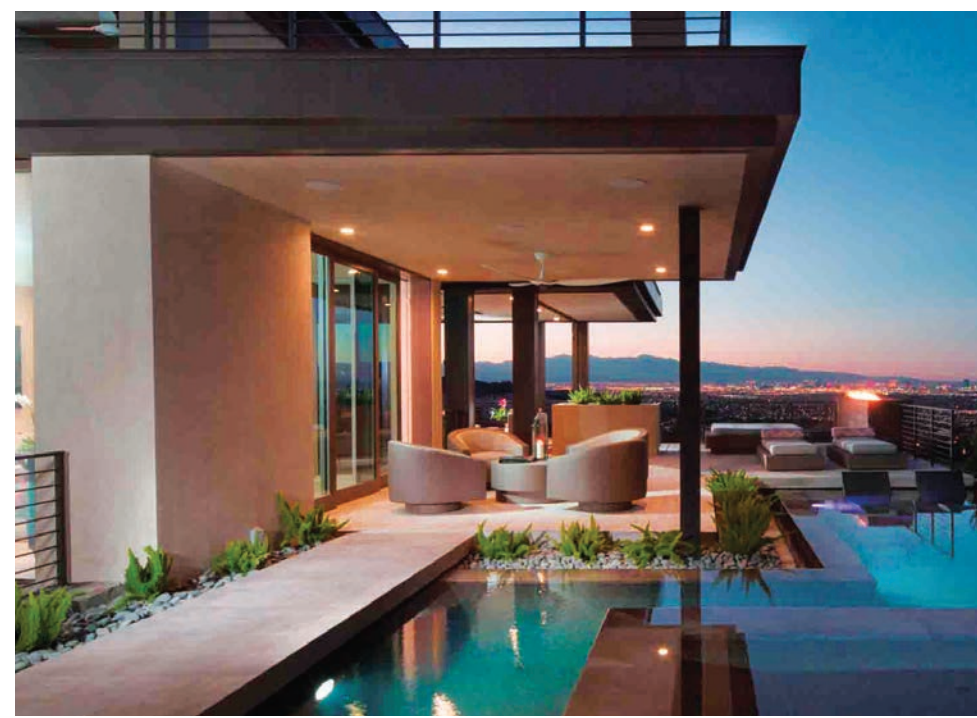
# Element Design Build

The New American Home | Henderson, NV | DesignMyElement.com



Photos courtesy of Element Design Build

“Energy consumption of new houses can be reduced by as much as 40% with little or no impact on the cost of construction.”  
Josh Anderson, owner, Element Design Build



## PROJECT DATA

- **Layout:** 4 bdrm, 4.5 bath, 2 fl + bsmt, 6,541 ft<sup>2</sup>
- **Climate:** IECC 3B, hot-dry
- **Completed:** January 2016
- **Category:** custom spec

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 44, with PV -17
- **Projected Annual Energy Costs:** without PV \$3,714, with PV -\$549
- **Projected Annual Energy Cost Savings:** (vs home built to 2009 IECC) without PV \$2,800, with PV -\$7,062
- **Annual Energy Savings:** without PV 22,482 kWh, 164 therms; with PV 58,672 kWh, 164 therms

## CONTACT

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## KEY FEATURES

- **Walls:** R-31 blown fiberglass.
- **Roof:** ENERGY STAR cool roof, metal.
- **Attic:** Unvented attic with R-58 blown fiberglass.
- **Foundation:** Uninsulated slabs. Above-grade floors insulated to R-21 with batt fiberglass plus R-10 rigid foam.
- **Windows:** Double-pane; low-e; argon-gas filled; vinyl, wood, or aluminum frame.
- **Air Sealing:** 2.69 ACH 50.
- **Ventilation:** HRV.
- **HVAC:** Minisplit heat pumps 19 SEER.
- **Hot Water:** Tankless gas water heaters, 0.95 EF.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, clothes washer.
- **Solar:** 19.21-kW PV.
- **Water Conservation:** WaterSense-qualifying fixtures and toilets.
- **Energy Management System:** Internet-controlled lighting, HVAC, shades, security.
- **Other:** Low-VOC paints and sealants.

