

### **Glacier Circle Senior Community - Solar & Energy Efficient Components:**

1. There are three groups of buildings containing the homes and the Common House. Two of the buildings are the homes, which are placed along an east/west axis and all face south for maximum solar gain. Shared walls reduce east and west exposure.
2. Roof overhangs, trellises, and other shading devices provide protection from overheating the interior spaces during the hot Davis summers.
3. The plywood roof sheathing is backed with an integrated reflective layer of attic radiant barrier material; this reduces heat summer gain and winter heat loss.
4. All of the buildings are slab-on-grade and have R-15 wall insulation and R-38 roof insulation.
5. Three homes have photovoltaic panels (solar electric) and solar water heating with a tankless gas water heater for a backup.
6. All of the homes, except one have a tankless gas water heater for hot water.
7. In order to reduce the electrical lighting loads, all of the buildings incorporate day lighting from skylights and sun tubes (tubular skylights) and use fluorescent lighting for general room illumination.
8. All units have skylights with triple glazed prismatic acrylic panels, electrically openable skylights that capture the delta breeze in the summer to help cool the houses at night.
9. All units have a high efficiency HVAC systems, with 14 SEER & 90 AFUE ratings; most have a high efficiency electronic air filtration system, by Aprilaire.