1. Desert building tradition

2. Low-carbon + zero energy

3. Affordability

- **Median Rent**
  - Menlo Park: $663
  - National average: $1,098

- **Median Household Income**
  - Menlo Park: $31,734
  - National average: $57,652
  - 34.8% are below the Federal poverty line

Labels:
- Architecture
- Occupant experience
- Comfort and environmental quality
- Embodied environmental impact
- Energy performance
- Engineering
- Market analysis
- Durability and resilience
- Integrated performance
water retention garden
A Menlo Park alley after a rainstorm

The view of Sentinel Peak
I am a grandmother wanting to be closer with my family while maintaining an active life.

We are both working parents looking for a good starter home in a friendly community that is safe for our family.

Bringing business and job opportunities into my neighborhood is important to me.

I am a young professional and I need an affordable yet comfortable place to live with easy access to public transportation.

Studio / Rincon
“I am a young professional and I need an affordable yet comfortable place to live with easy access to public transportation.”

One Bedroom / Catalina
“I am a grandmother wanting to be closer with my family while maintaining an active life.”

Two Bedroom / Santa Rita
“We are both working parents looking for a good starter home in a friendly community that is safe for our family.”

Commercial / Rincon
“Bringing business and job opportunities into my neighborhood is important to me.”

Rincon ADU resident waves to neighbors out for a walk on the Camino Verde.
**Rincon** | 564 sq ft

- Solar ramada
- Inhabitable roof
- Water tank
- Retention garden

**Catalina** | 730 sq ft

- Inhabitable roof
- Water tank
- Retention garden

**Santa Rita** | 850 sq ft

- Solar ramada
- Inhabitable roof
- Water tank
- Retention garden
1. Fiber Cement Board | [HardiePanel®]
2. Wood Fibre Board | Beetle Kill Timber / 2.5"
3. Airtight Membrane
5. *Phase Change Material | [Infinite R®]
6. Base Clay Coat
7. Reinforcing Mesh
8. Fine Clay Plaster / 1"

**DESERT BUILDING TRADITION CAMINO VERDE**

**LOW CARBON + ZERO ENERGY AFFORDABILITY**

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**Interlocking Subfloor x2**

**Vapor + Termite Barrier**

**EPS Insulation**

**Earth Fill**

**Insulated Concrete Form**
PHIUS Targets Surpassed!

Source Energy = 29,646.7 kBtu/yr
Renewable Energy Production = 8 modules 33,024.9 kBtu/yr (pvwatts calculator)

(29,646.7 - 33,024.9 = 3,378.6)

3,378.6 kBtu/yr excess
energy production to sell back to grid or Sunblock energy loop
Menlo Park - $663 National Average - $1,098
Menlo Park - $31,734 National Average - $57,652

Median Rent
60%
Menlo Park - $663 National Average - $1,098

Median Household Income
55%
Menlo Park - $31,734 National Average - $57,652

Traditional Construction

Design and Engineering
Permits and Approvals
Site Prep and Foundations
On-site Construction

Panelized Construction

Customization and Planning
Permits and Approvals
Site Prep and Foundations
Manufacturing
On-site Construction

Occupants decide what configuration of ADU fits their needs

Wall panels fabricated on Barrio Oeste (Sunblock project 2) factory site
New low-carbon construction!

1. Fiber Cement Board | [HardiePanel®]
2. Airtight Membrane
4. Fine Clay Plaster / 1"

Such layers are deliberately implemented for different reasons including increased fire resistivity.
mid-day view of the southeast facade
afternoon view of the northwest facade
relaxing in front of the fireplace during sunset