



# **The Confederated Tribes of Grand Ronde:**

## **Commitment to its multi-generational community through energy-efficient and resilient building development**

Energy Trust Allies for Efficiency (AFE)

Ryan Webb, Engineering & Planning Manager, CTGR

Jessica Schultens, Architect, Anderson Shirley Architects

Kevin Gooley, Development Coordinator, Elemental Energy



# CREEKSIDE ELDER HOUSING

## Project Highlights

- 24 Units (12 duplexes)
- Each unit is 1,120 Square Feet
- 2 bedrooms and 1 bathroom
- Construction completed in December 2023
- 16 Market Rate Units and 8 Low Income Units
- Each unit has Solar Panels plus backup battery storage
- Rated by Energy Trust of Oregon as Net-Zero residential homes (some of the first in the PNW region)



# CREEKSIDE ELDER HOUSING

## Project Team

- Owner: The Confederated Tribes of Grand Ronde
- Architect: BLRB Architects
- General Contractor: Baldwin General Contracting
- PV Subcontractor: Elemental Energy



# CREEKSIDE ELDER HOUSING

## Key Features of the Homes

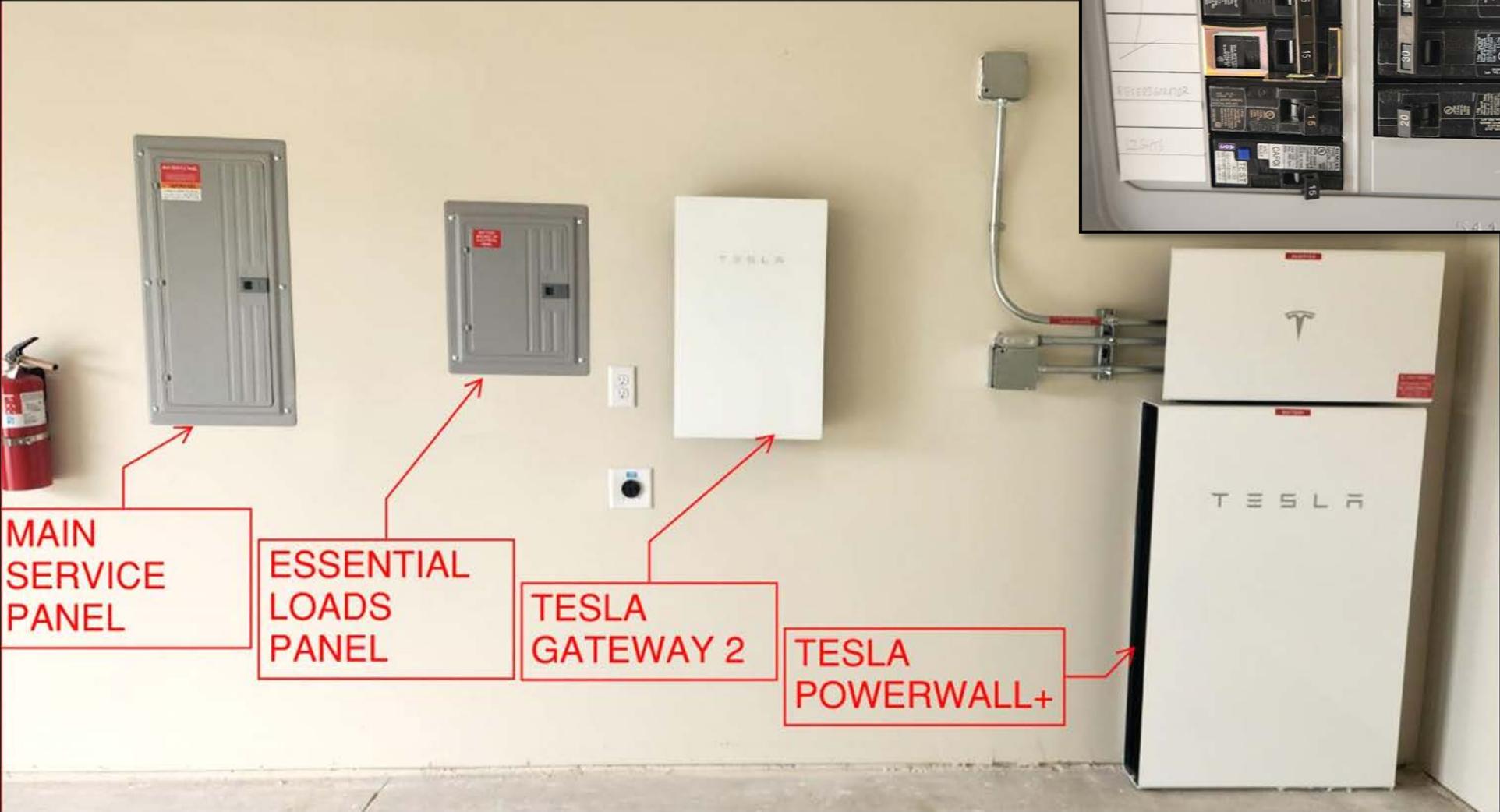
- Raised Heel Trusses
- 2x6 Exterior Framing
- Blown-in Insulation
- Triple Pane Windows
- Sun Tunnels
- High Efficiency Water Heaters, HVAC system and Appliances
- 18 Solar Panels per unit (generates 7kW)



- TERO Hours & Wages:
  - 6021 hours
  - \$265,091 in wages

# CREEKSIDE ELDER HOUSING

## Solar + Storage



# HEALTHCARE AND VACCINATION CLINIC

## Project Highlights

- New 10,000 square foot building
- Completed in February 2024
- The Clinic is a full-service health center, including medical and dental.
- The facility also includes:
  - Educational classroom
  - Demonstration kitchen
  - Outdoor fish pit

## Project Team

- Owner: The Confederated Tribes of Grand Ronde
- Architect: Anderson Shirley Architects
- General Contractor: Triplett Wellman
- PV Subcontractor: Elemental Energy



# HEALTHCARE AND VACCINATION CLINIC

- Key Features of the building:
  - 148 Solar Panels (generates 66.6kw)
  - Annual production 76,500 kWh
  - Annual savings \$6,065
  - *Offices conditioned with 100% free cooling economizer and VVT controls; Trane Precedent 17 Plus*
  - *Clinic & Dental spaces conditioned with 4 RTU with 100% free cooling economizer; reheat VAV terminate units; AAON RN*
  - *Exam spaces (2) designed for future Airborne Infection Isolation and (2) for infection control; conditioned with 2 RTU and capable of 100% outdoor air operation*
  - *LED fixtures from ETO approved list including: 2x4 troffers, pendants, and task lights*
  - *Exceeded lighting code by 21%*
- TERO Hours & Wages:
  - 2,469 hours
  - \$94,451 in wages



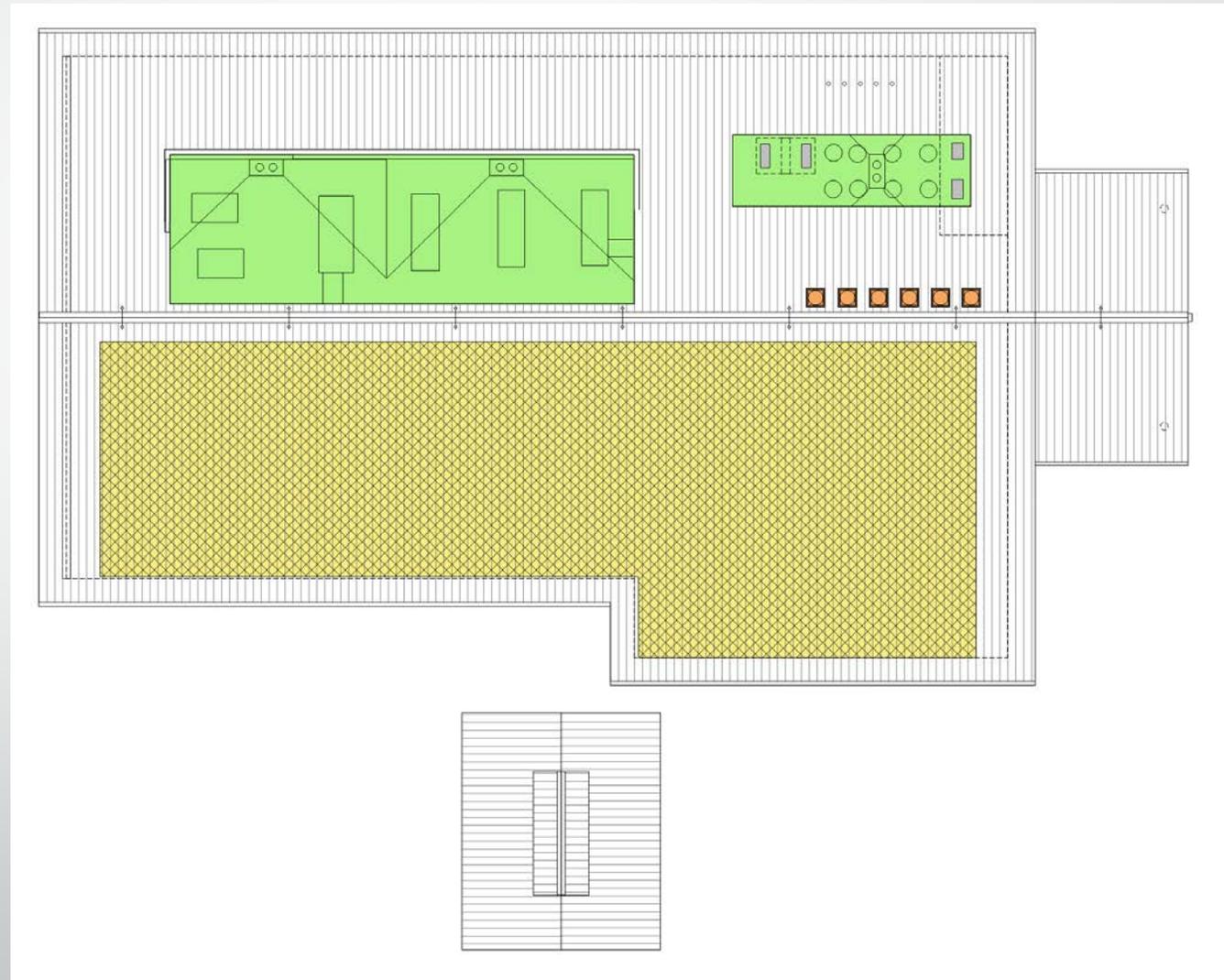
# HEALTHCARE AND VACCINATION CLINIC

- Floor Plan
  - *Blue = Medical Exam Rooms / Labs*
  - *Pink = Dental Exam rooms / Labs*
  - *Green = Offices*
  - *Orange = Reception, Lobby, Community Rooms, Breakrooms*
  - *Purple = Restrooms, Data, Storage, Mechanical*
  - *Yellow = Electrical, Fire Riser, Solar Inverter*



# HEALTHCARE AND VACCINATION CLINIC

- Roof Plan
  - *Yellow = Solar Panels*
  - *Green = Mechanical Wells*
  - *Orange = Light Tubes (Skylights)*



# HEALTHCARE AND VACCINATION CLINIC





# QUESTIONS?

Contact Info: [Ryan.Webb@grandronde.org](mailto:Ryan.Webb@grandronde.org)