- Inbound/Outbound window placement
- Window buck & air sealing
- Weep holes

















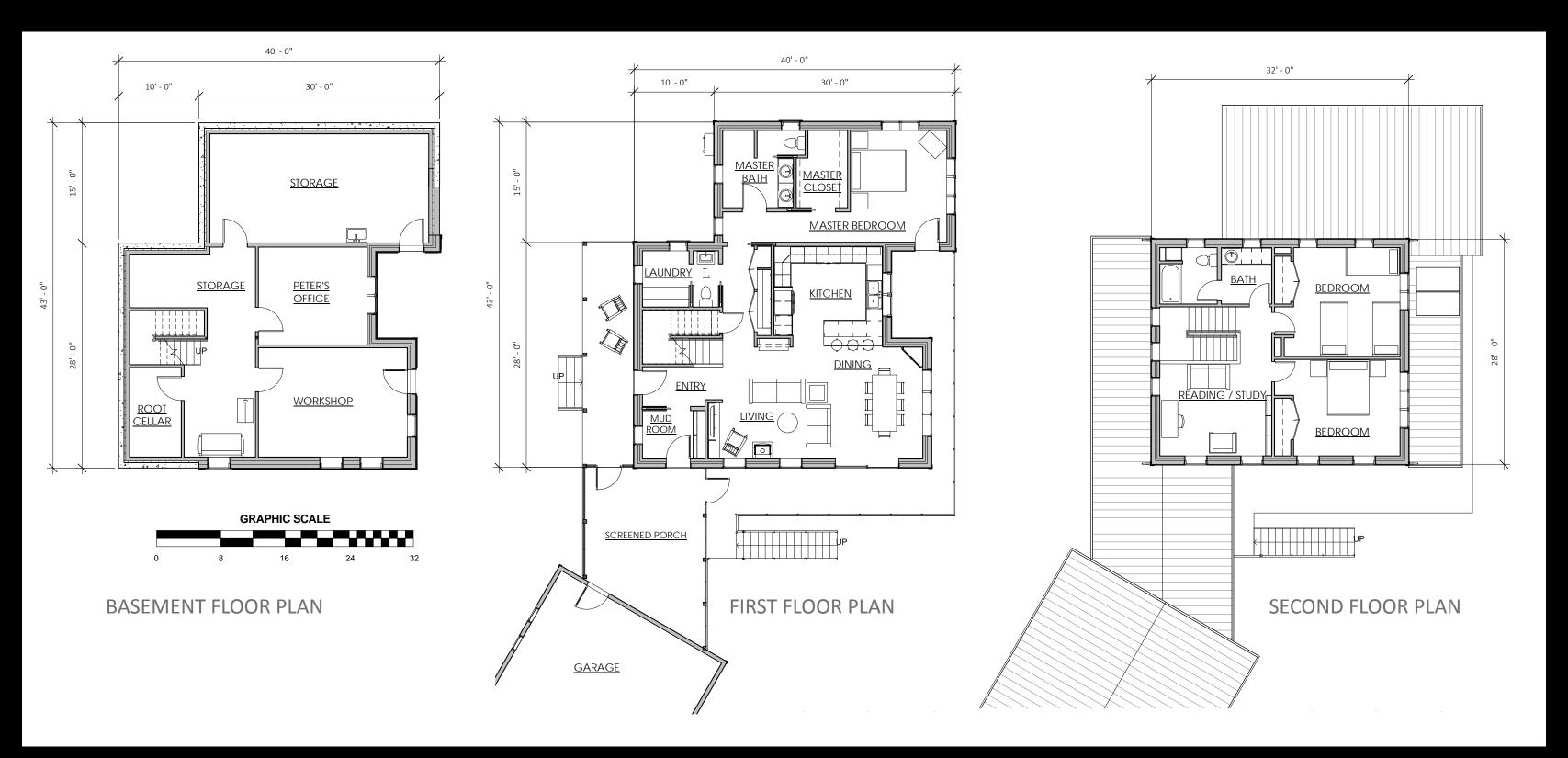
Program:

Traditional farmhouse
Single level living potential
Garage connection
River views
Walk-out basement to accommodate slope









ENVELOPE SYSTEMS:

Foundation:

8" (R-30) EPS under 4" concrete slab

Concrete footing/ foundation wall with 2" XPS

Wall:

2x4 stud with R-20 batt insulation

Double stud wall with airtight drywall

Dense pack cellulose

Rigid insulation w/ spray foam at rim joists

Taped plywood sheathing with Mento membrane WRB

Strapping

Hardi prefinished clapboard siding

Roof:

Raised heel truss with 6' or 9' plate height

Intello vapor/air control layer

Loose blown cellulose

Stick framed screen porch

<u>HVAC:</u>

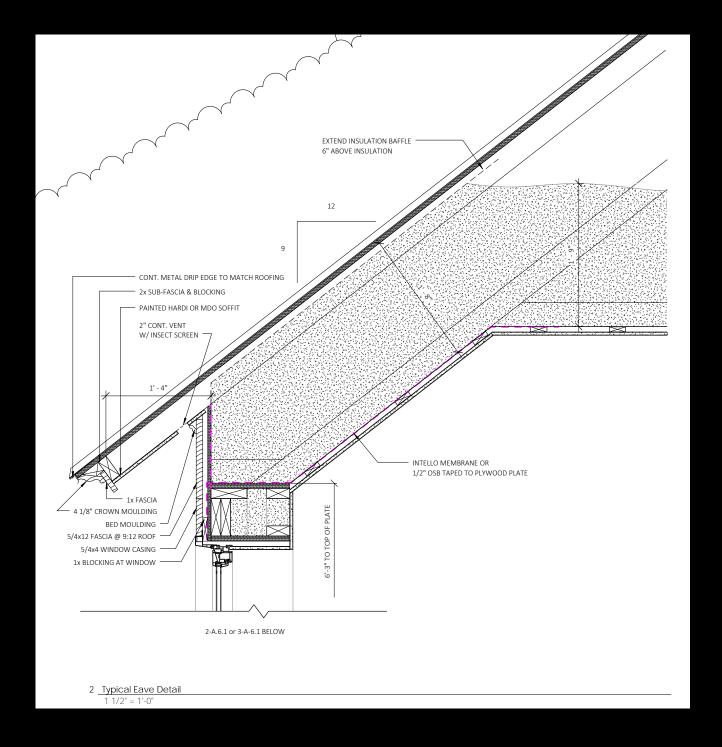
Venmar HRV (156 cfm) with 6" metal duct

5 heat pump heads w/ 1 outdoor compressor

Woodstove

Heat pump hot water heater

Bathroom electric radiant floors under tile



HERS: 33, 12 with PV

(Home Energy Rating System)

Net-Zero operation with mostly wood heat.

Square Feet: 3756 sf w/basement, Volume: 31,021 cu ft

Blower Door: 203 cfm50, .4 ACH50

Predicted energy use:

48.8MMBtu/yr w/o PV production (\$2237),

20.2 MMBtu (\$1000) with 6.6kw PV panels

Actual Energy Use:

51 MMBtu/yr, 15 kbtu/sf/yr,

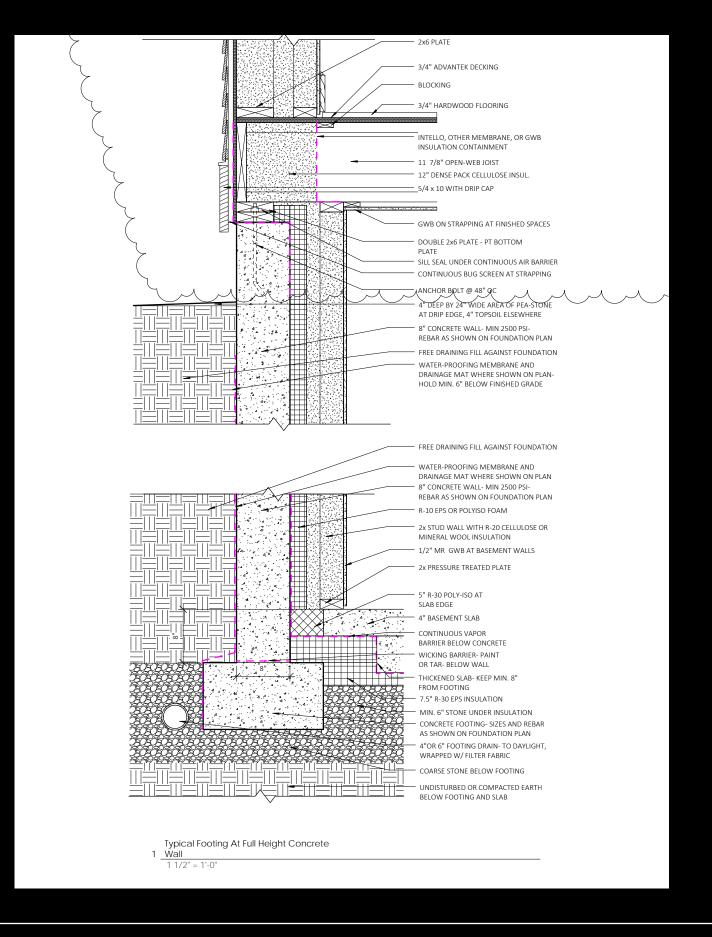
Electric: 5303 kwh, \$1200

1.5+/- cord wood (22 MMBtu/cord),

PV Production:

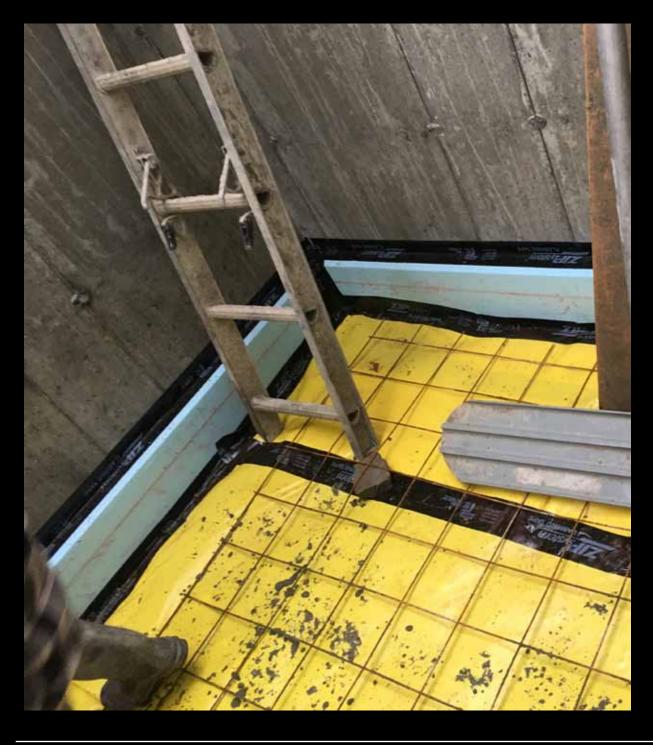
7227kwh





Keep poly flat to ensure tape adherence

Find the easiest method





Keep poly down until roof is on

Cut poly as close to sheathing as possible



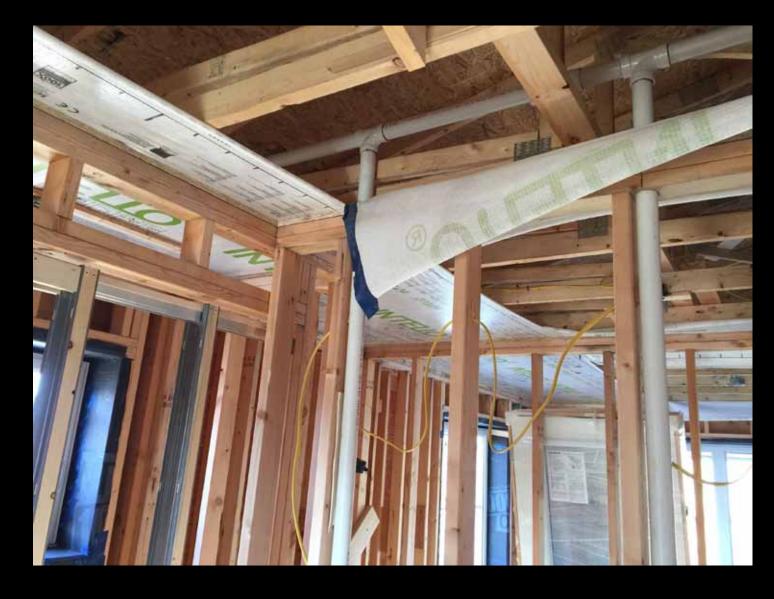
Try to create flat surfaces for ease of taping













Go over install procedures thoroughly





Air tight drywall method can work well Caulking Can spray foam

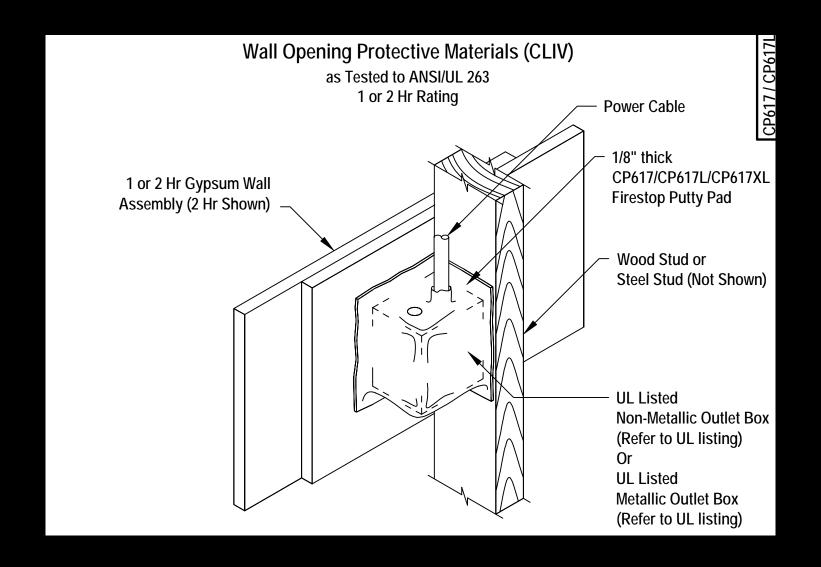




Figure out roof panel layout with pv layout/roof penetrations in advance



Help out mechanical/plumbing contractors

Options on duct work



