

STRUCTURAL DETAILS:

- Place detail of continuous load path from top of roof to bottom of foundation.
- Trusses
- Provide a roof plan and/or truss layout complete.
- Detail the roof rafter connections to the exterior wall plates. Show all connections to plates.
- Critical bearing connections must be detailed, with hardware specified.
- Shear walls and brace walls must be clearly identified and specified.
All nailing shall be called out.
- Provide masonry fireplace details, including vertical steel and building ties; specify type of required inspections.
- Provide HVAC suspension details, including seismic restraints.
Spread truss supports over three minimum, fasten in the upper half of the top chord, and coordinate with truss calculations. Any divergence requires an engineer.
- Specify masonry veneer attachments, weep holes; include footing and/or lintel details as appropriate. Supply manufacturers listing.
- Show rafter ties or bearing ridge beam. Detail splices.
- Specify garage door header; provide lateral details and calculations if wall returns are less than 4'. Specify species and grade.
- Specify ceiling joists: direction, size and spacing.
- Roof rafters: show direction, size and spacing. Specify lumber species and grade.
- Posts: detail base and top connections.
- Headers and Beams: specify size, species and grade. Note: these may require calculations.
- Dutch gable eave support: outrigger notching detailed appropriately on truss submittal. Note: a common truss cannot be notched.

- Roof sheathing: specify type, size and nailing.
- Ripped cantilevered deck joists: requires calculation and in-field lumber grading. **Note: we do not recommend this solution.**
- Cantilevered joists shall not exceed 4X member depth or 32", or 3X the backspan without calculation.
- Specify balloon framing to bottom chord of scissor trusses.
- If using T1:11 shear walls, provide a nailing detail at the vertical joint.
- Require gable end truss verticals to align with T1:11 edge joints.
- Specify gable end truss verticals at 16" o.c. if using hardboard siding.
- Special inspections required if using epoxy foundation bolts, field welding, 3000 psi concrete or called out by Engineer. CBC chapter 17.
- All trusses shall bear a stamp per CBC 2343.6 identifying the manufacturer, loading criteria, and spacing.
- Provide signed truss layout and calculations, including designs for attic equipment and other special loads. Include bracing criteria, and gable end truss designs. Truss calculations with handwritten information will require wet-signature. CBC 106.3.3
- Provide a signed statement by the building designer that s/he "has reviewed the truss submittal, and all loading and design criteria have been met." CBC 106.3.3
- All details, nailing, etc., must be transferred to the plans. Provide wet-signed and stamped structural calculations, if applicable.