Truss framed gambrel roof. Trusses 24” o/c. Made from 2x8 (sidewalls) and 2x6 (ceiling and upper gable). All angles are either 60º or 30º. Layout on floor deck to actual measured dimensions. Test 1st truss then use as template.

In this example the upper floor is 24’ wide and sits on 2x6 walls below.

**Gambrel Section**

No Scale

2x4 eave extension added to truss.

2x4 vent blocks allow air in at bottom

ACX plywood at open eaves.

Vent baffle to keep 1” ventilation channel Abv. insulation.

Plumb cut 2x8 sidewall rafter & attach to floor system w/ A35 (Min) and/or LTS12 anchor to wall and 2x4 blocking.

2nd floor structure. Insulate @ rim.

**Eave Extension**

Scale 1”= 1’-0

Note:
Adjust this structural configuration so it is appropriate for your spans and local wind, snow and earthquake loads. Consult your local building department or a structural engineer.
Roofing shingles with flashing over sidewall roofing at joint.

Continuous vent baffle to above attic insulation.

Truss connection with 1/2" plywood, glue & 10-8d nails @ both sides (or Mfg truss). Similar plate at peak.

2x4 blocking/nailer. (Drywall clips at wall)

2x8 sidewall rafter.

2x6 upper gable rafter

Full attic insulation (12" shown)

2x6 ceiling joist

Truss Joint at Ceiling
Scale 1" = 1'-0

Flash roofing onto eave extension.

2x6 extension to truss w/ 2x4 and plywood soffit w/ ventilation strip below.

2x8 cedar facia

Vent baffle open to soffit vent

Trusses @ 24" o/c attach to floor system w/ A35 anchor or Btr.

Block between trusses w/ 2x4. Nail structural wall sheathing over blocking and into truss 2x8.

Flared Eave Extension
Scale 1" = 1'-0

Gambrel Roof Details
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