Dallas Area Habitat for Humanity®

Framing Basics 2

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every hand makes a difference

Agenda

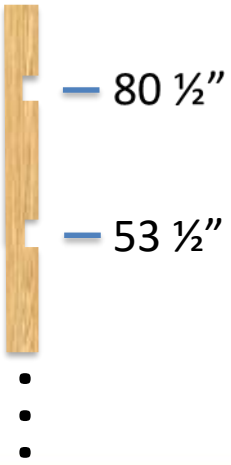
- Blocking – Kitchen and ADA
- HVAC
- Deadwood
- Attic Access
- Marking studs
- Sheathing walls
- Sheathing gables
- Blue Board
- Brick Ties

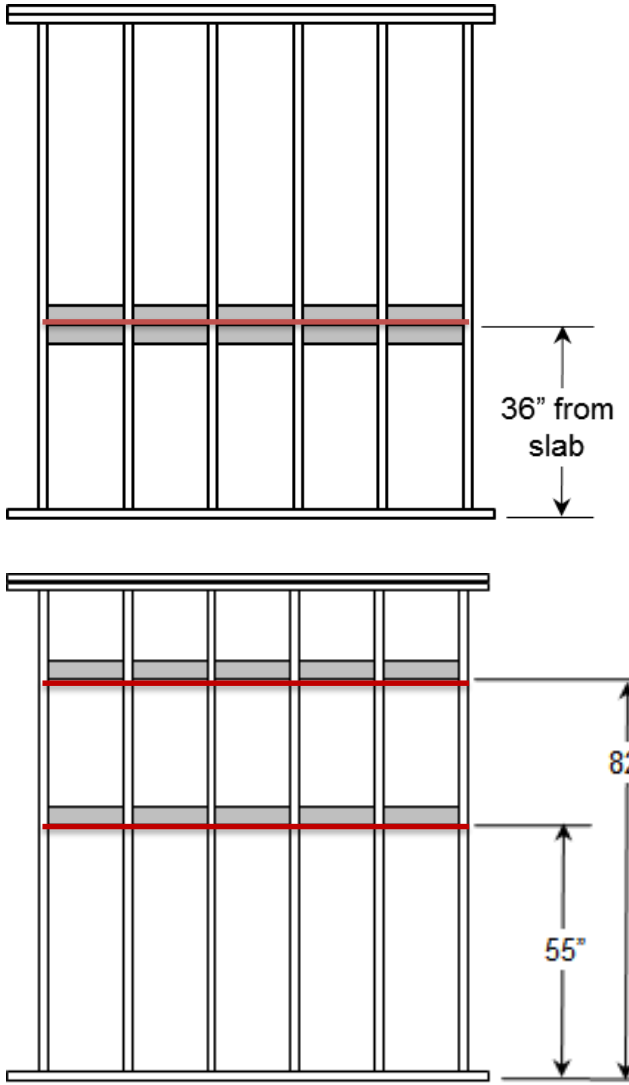
Blocking (Kitchen and ADA)

- With all Blocking
  - Verify location
  - Non-finger jointed lumber
  - Use wide side of the block so it's flush with interior face of the studs
  - Attach using 2-12d nails on each side of blocks
  - "toe nail" when needed.

Blocking cont.

- Bathroom
  - Jig cut to 31” helps install
- Kitchen
  - Jigs cut at 53 ½” and 80 ½”
- Simple jig:



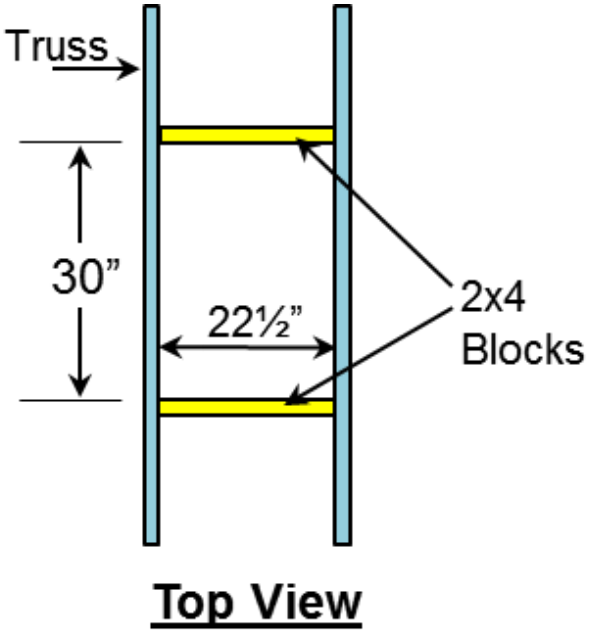


HVAC Closet

- Do not install until after walls are strung and braced.
- Prior to sheathing, be sure there are studs for nailers on all corners.
- Don’t rest OSB on ground
- Do not nail down deck, install before trusses go up.
- Caulk vertical and horizontal seams under the ledger boards

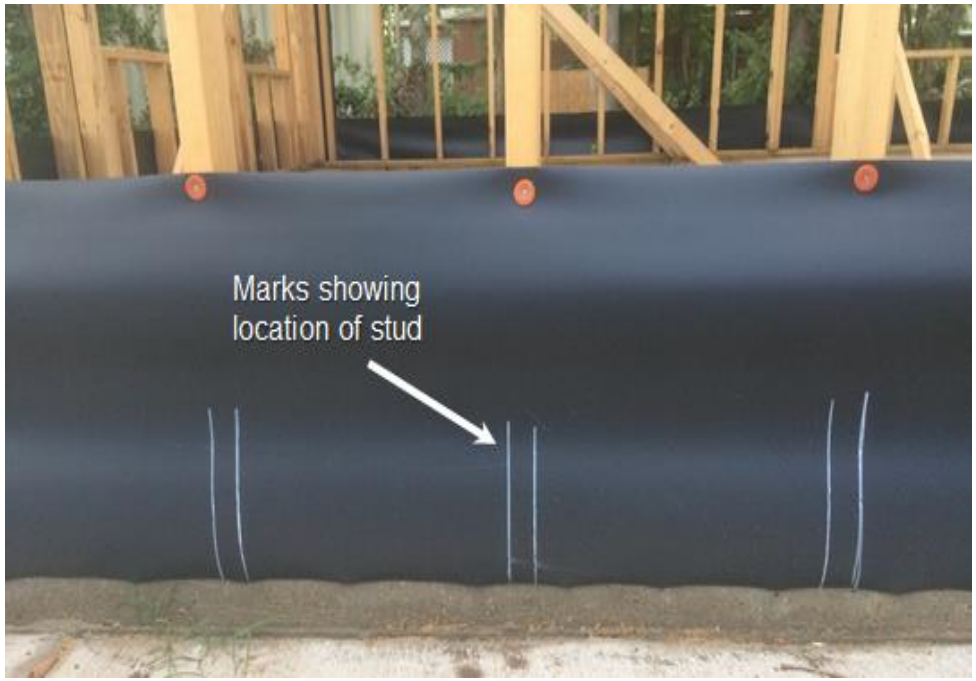
- On walls parallel to trusses
- non-finger jointed wood at least 12in long
- Nail every 8-12”; use at least 3 nails
- No more than 3 inches between pieces.
- Cover corners

Attic Access



Marking stud locations

- Mark cap plate and polybarrier
- Mark over blue board
- Used for nail placement for brick ties/siding

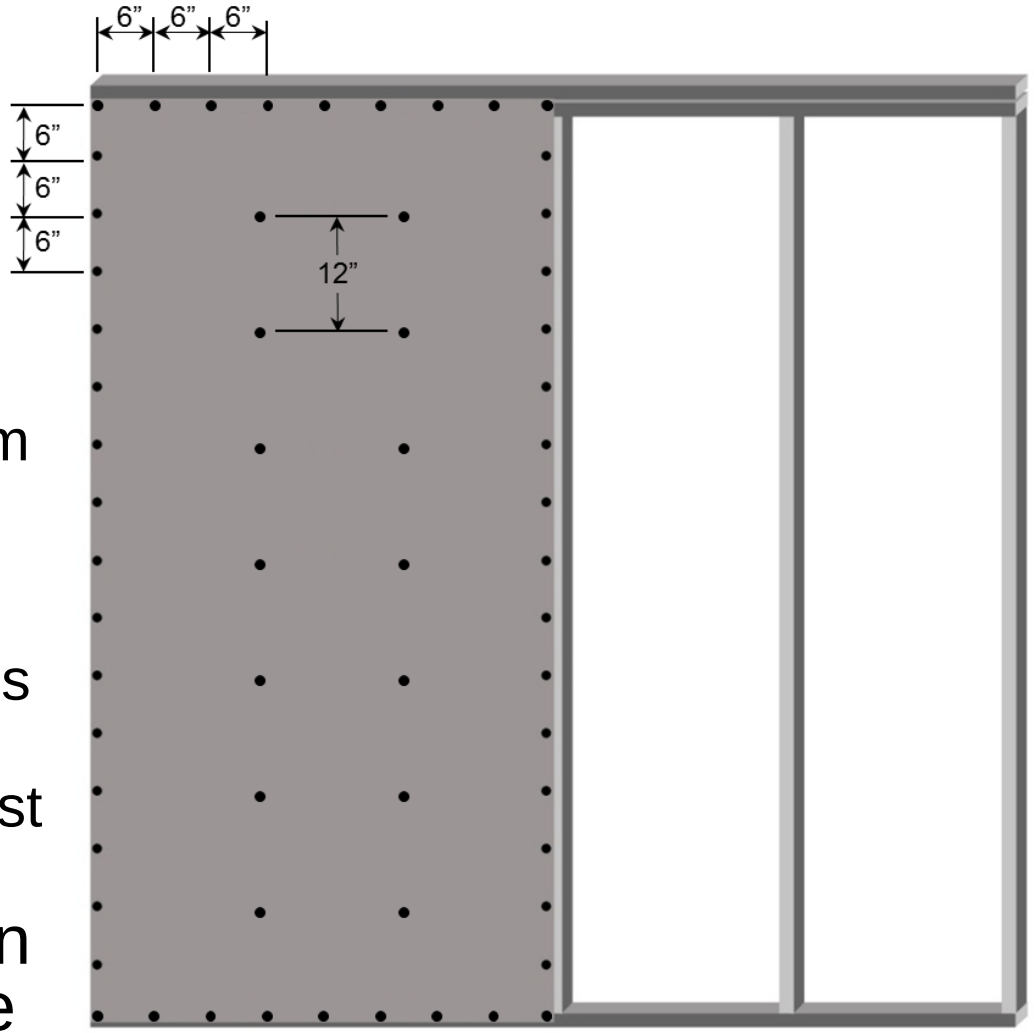


Marking stud locations/OSB guide

- Measure 1” from top of cap plate on the corner of exterior walls
- Snap a line
- 12d nail on center of each stud on the chalk line
- Don’t pull nails*

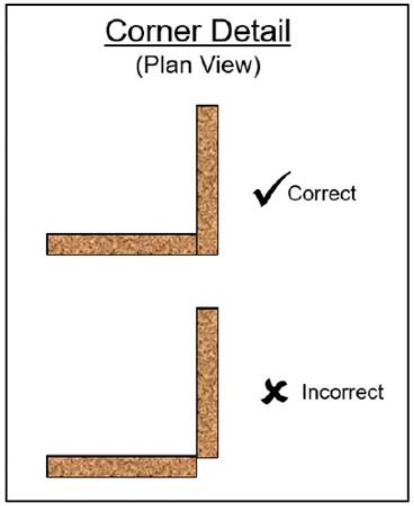
Sheathing

- Sheathing walls:
  - Installed vertically
  - Start with full sheet from the corner
  - 8d nails no more than every 6 inches on perimeter and 12 inches in field
  - Do not allow OSB to rest on slab at porches
- Place 8d nails between panels to create space



Sheathing Walls – Shear Walls

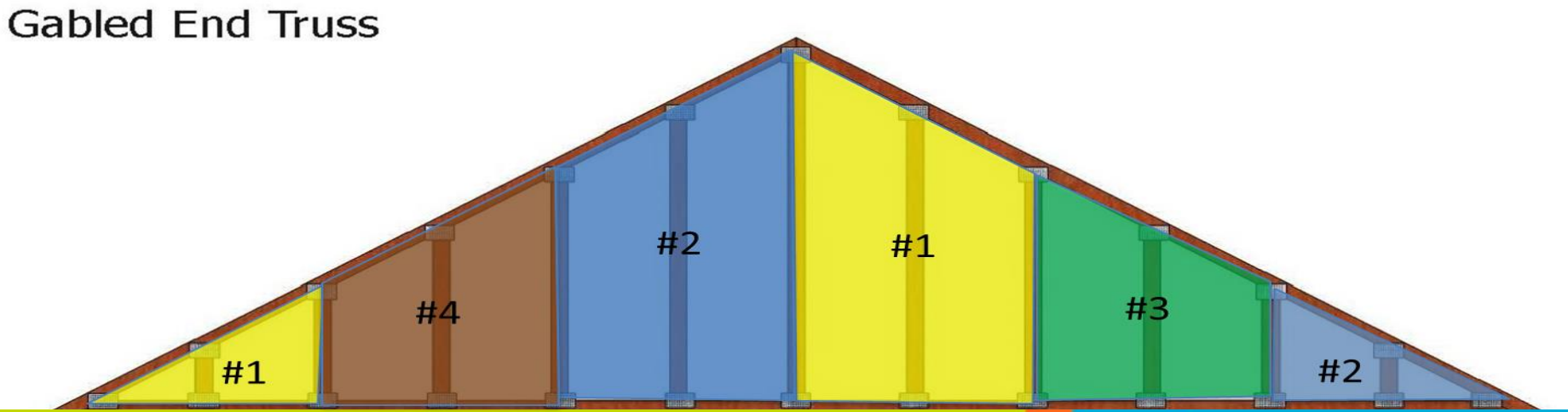
Figure 6-1. Use Full Sheets of Sheathing at Corners



- Full panels on all shear walls:
  - All corners
  - garage wall
  - front door

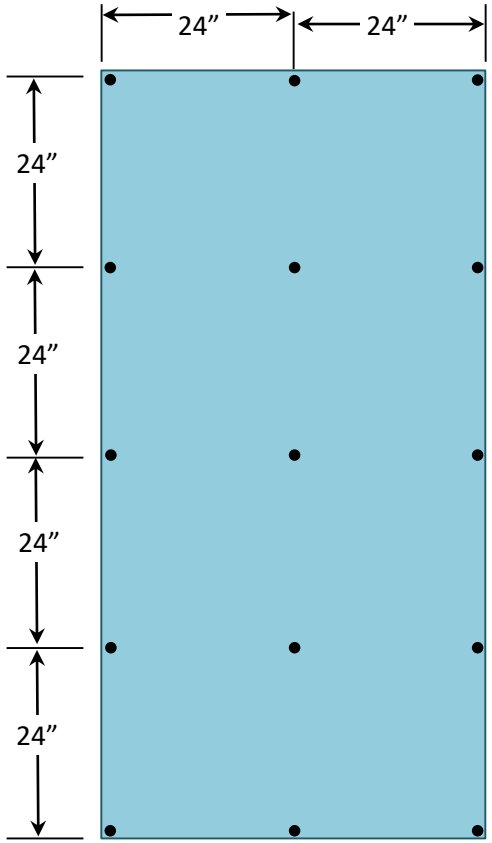
Sheathing gables

- All sheathing installed vertically
- Measure king post from bottom of the gable to the peak
- Transfer measurement over to OSB using correct pitch.
- 8d nails, no more than every 6” on perimeter and 12” in the field
- Repeat on successive sheets



Blue board/Wrap Porch Gable

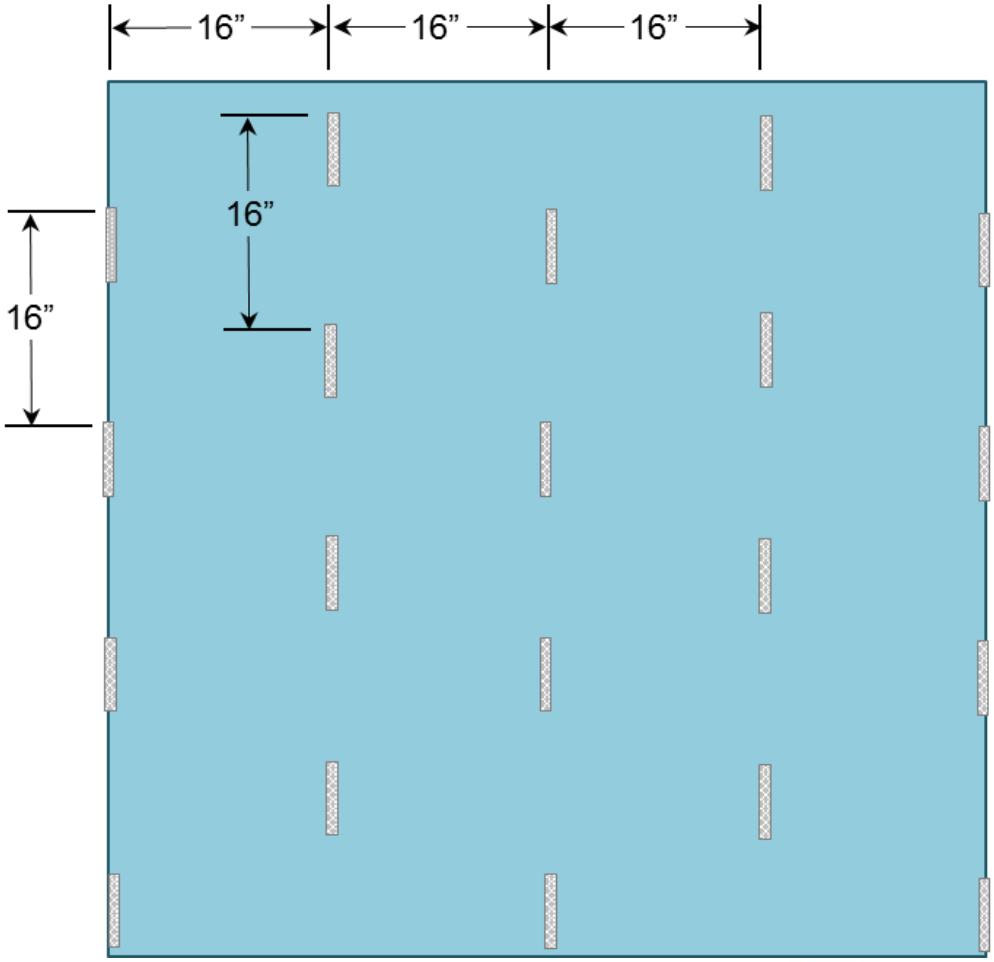
- Blue board
  - Install vertically
  - Letters facing out and up
  - Off-set blue board by 2’ from sheathing seam, do not install seam on seam.
  - Use roofing nails
  - 3 columns of 5 nails
  - Nail 2” from edges, leave room for tape
- Housewrap
  - Secure with button caps



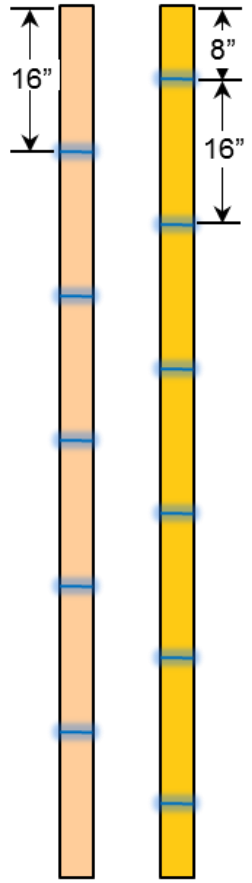
Brick ties

Attach to wall with an 8d nail in the top hole

*Nail into studs



“Story Board”



Questions?

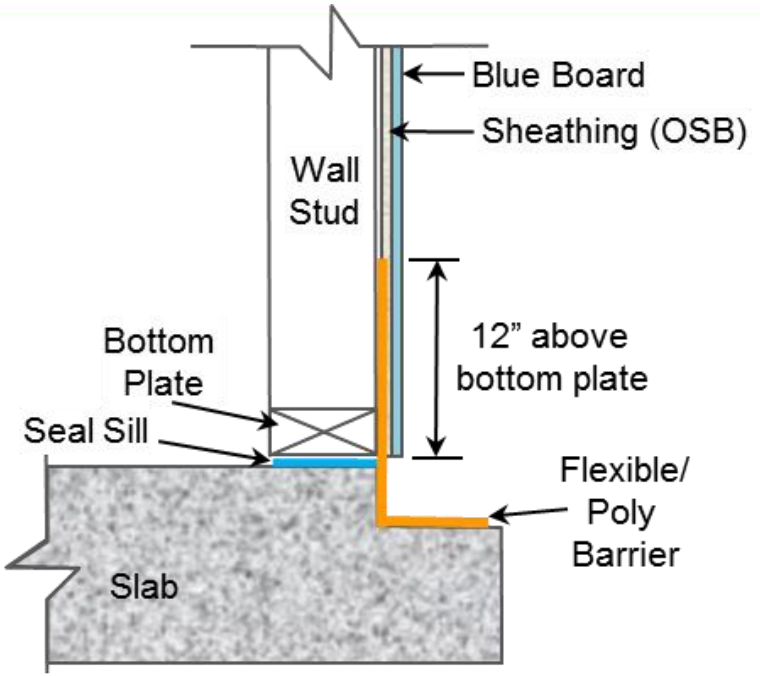
Wall Issues/Solutions:

- Wall is short
  - DO NOT assume snap lines are correct.
  - Verify wall/bottom plate or top plate is short compared to floorplan.
  - If wall is ½” short, add OSB spacers on either end of wall.
  - Do not add shims at the corner or end of wall.
  - Be sure to rip cut OSB less than wall width, typically 3”
  - Nail to wall using either 8d or 2” roofing nails every foot.
  - If wall is ¼” short, install wall

Wall issues/solutions: cont.

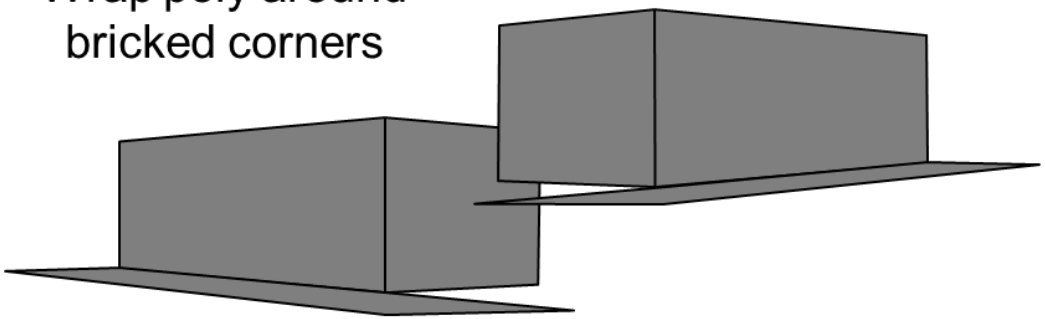
- Wall is long
  - Verify wall/top plate/bottom plate is long
  - If wall is ½" long or less
    - knock stud into place.
  - If wall is longer than ½"
    - measure length to cut, remove end component, cut each plate and replace component then install wall.

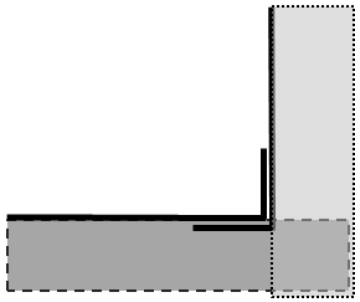
Brick Flashing



Bricked Wall

Wrap poly around bricked corners





Top View